

**IN THE UNITED STATES DISTRICT COURT
FOR THE EASTERN DISTRICT OF TEXAS
MARSHALL DIVISION**

CLOUD BYTE LLC,

Plaintiff,

v.

DELL INC., and DELL
TECHNOLOGIES, INC.,

Defendants.

Civil Action No. 2:24-cv-00637

JURY TRIAL DEMANDED

CLOUD BYTE’S PRELIMINARY INFRINGEMENT CONTENTIONS

Plaintiff Cloud Byte LLC (“Cloud Byte” or “Plaintiff”) submits its Patent Rule (“P.R.”) 3-1 and 3-2 Disclosures to Defendants Dell Inc. and Dell Technologies, Inc. (collectively “Dell”) pursuant to the Court’s Order granting the Joint Motion for Extension of Time to Serve Infringement and Invalidity Contentions (Dkt. 27).

Cloud Byte submits these Disclosures based upon information it has acquired to date, as it presently understands this information and the significance thereof, without yet having had the benefit of formal discovery, claims, or defenses from Dell. Accordingly, Cloud Byte reserves the right to modify, amend, retract, and/or further supplement the disclosures made herein as additional evidence and information becomes available, after the Court has construed the claim terms of the Asserted Patents and as otherwise allowed by the Local Rules and Federal Rules of Civil Procedure. Cloud Byte also reserves the right to accuse different instrumentalities or

alternative literal and/or equivalent infringing elements in Dell's Accused Instrumentalities as disclosed below.

Cloud Byte submits its P.R. 3-1 and 3-2 Disclosures to Dell with respect to U.S. Patent No. 7,739,544 ("the '544 Patent"), U.S. Patent No. 9,482,632 ("the '632 Patent"), U.S. Patent No. 9,560,177 ("the '177 Patent"), U.S. Patent No. 9,629,265 ("the '265 Patent"), U.S. Patent No. 9,651,320 ("the '320 Patent"), U.S. Patent No. 9,900,249 ("the '249 Patent"), and U.S. Patent No. 10,628,273 ("the '273 Patent") (collectively, the "Asserted Patents").

Although Cloud Byte is concurrently producing documents to Dell with its Infringement Contentions herewith, to date, Dell has not produced documents to Cloud Byte. Accordingly Cloud Byte's investigation regarding infringement is necessarily preliminary and ongoing, and these disclosures are therefore based on public information that Cloud Byte has been able to obtain to date regarding the function and operation of the Accused Instrumentalities (as defined in the attached P.R. 3-1(c) claim charts), together with Cloud Byte's present understanding of the meaning and scope of the asserted claims.¹ Cloud Byte reserves the right to supplement and/or amend its disclosures as additional information is ascertained through discovery and after the Court has construed the Asserted Patents.

A. CLOUD BYTE'S RULE 3-1 DISCLOSURES

(a) Each claim of each patent in suit that is allegedly infringed by each opposing party

¹ In many portions of Cloud Byte's 3-1 and 3-2 disclosures, Cloud Byte has gone beyond the disclosure requirements required by P.R. 3-1 and 3-2. These additional disclosures and citations are made for the benefit of Dell. Cloud Byte in no way confines its contentions to the specific citations of evidence and explicitly reserves the right to rely on additional or different evidence as the case moves forward through fact discovery, expert discovery, and trial. Furthermore, any omission of any other specific citation to the Accused Instrumentalities or documents related thereto does not constitute a waiver of Cloud Byte's right to raise any issues related to the Accused Instrumentalities or other documents related thereto at a later date.

Cloud Byte asserts that Dell has infringed and continues to infringe, has contributed to and continues to contribute to the infringement of, and/or has actively induced and continues to actively induce others to infringe at least the following claims of the Asserted Patents:

Claims 1-9, 11-20, 22 of the '544 Patent (*see* Exs. 1–4);

Claims 1, 3, 5-9 of the '632 Patent (*see* Ex. 5);

Claims 1-20 of the '177 Patent (*see* Ex. 6);

Claims 1-8 of the '265 Patent (*see* Exs. 7–8);

Claims 1-8 of the '320 Patent (*see* Ex. 9);

Claims 1-27 of the '249 Patent (*see* Ex. 10); and

Claims 1-21 of the '273 Patent (*see* Ex. 11).

Cloud Byte reserves the right to supplement and/or amend its disclosures to identify additional claims infringed by Dell that are revealed through discovery, or in response to Dell's P.R. 3-4 production, or as permitted under the Patent Rules.

(b) Separately for each asserted claim, each accused apparatus, product, device, process, method, act, or other instrumentality ("Accused Instrumentality") of each opposing party of which the party is aware. This identification shall be as specific as possible. Each product, device, and apparatus must be identified by name or model number, if known. Each method or process must be identified by name, if known, or by any product, device, or apparatus which, when used, allegedly results in the practice of the claimed method or process

Dell infringes Cloud Byte's patented technologies across many different parts of its business, including in: all ethernet switches, SmartFabric services, and edge networking products and servers incorporating same ("Dell Networking Products"); all products and services relating to Redundant Array of Independent Disks (RAID) technology and servers incorporating same ("Dell RAID Products"); and all server systems supporting high availability or fault tolerance features, abnormality detection, airflow cooling, and/or temperature control ("Dell Server

Products”), that Dell makes, uses, sells, offers to sell, and/or imports into the United States and in the associated consulting and support services that it provides to its customers (as disclosed in the P.R. 3-1(c) claim charts) that are capable of and/or configured to perform the identified infringing functionalities.

The Accused Products for the ’544 Patent include at least the Dell RAID Products and the following Dell products: Dell PowerEdge servers that use PowerEdge RAID Controllers, which include at least the 13th generation (C4130, C6300, C6320, C6320p, FC430, FC630, FC830, FD332, FM120x4 (for PE FX2/FX2s), FX2/FS2s, M630, M630 (for PE VRTX), M830, M830 (for PE VRTX), R230, R330, R430, R530, R530xd, R630, R730, R730xd, R830, R930, T30, T130, T330, T430, T630); the 14th generation (C4140, C6400, C6420, FC640, M640, M640 (for PE VRTX), MX5016s, MX7000, MX740c, MX840c, R240, R340, R440, R540, R640, R6415, R740, R740xd, R740xd2, R7415, R7425, R840, R940, R940xa, T40, T140, T340, T440, T640, XE2420, XE7100, XE7420, XE7440, XR2); the 15th generation (C6520, C6525, MX750c, R250, R350, R450, R550, R650, R650xs, R6515, R6525, R750, R750xa, R750xs, R7515, R7525, T150, T350, T550, XE8545, XR4000r, XR4000w, XR4000z, XR4510c, XR4520c, XR11, XR12); the 16th generation (C6600, C6615, C6620, HS5610, HS5620, MX760c, R260, R360, R660, R660xs, R6615, R6625, R760, R760xa, R760xd2, R760xs, R7615, R7625, R860, R960, T160, T360, T560, XE8640, XE9640, XE9680, XR5610, XR7620, XR8000r, XR8610t, XR8620t); and the 17th generation (R670 CSP Edition, R770 CSP Edition) of the PowerEdge servers, and all other Dell servers that use PowerEdge RAID Controllers with substantially similar functionality. The PowerEdge RAID Controllers can be either hardware or software based and include at least the following Dell products: Series 9 Family (H830 Adapter, H730P Adapter, H730P MX, H730P Mini Mono, H730P Mini Blade, H730 Adapter, H730 Mini Mono, H730 Mini Blade, H330

Adapter, H330 Mini Mono, H330 Mini Blade, S130 Software RAID); Series 10 Family (H840 Adapter, H745P MX Adapter, H740P Adapter, H740P Mini Mono, S150 Software RAID, S140 Software RAID, H745 Adapter, H745 Front, H345 Adapter, H345 Front); Series 11 Family (H755 Adapter, H750 Adapter, H755N Front (NVMe Only), H755 Front (SAS/SATA Only), HBA355 Adapter (internal), HBA355 Front (internal), HBA350 Adapter (internal), HBA355e Adapter (external), HBA350 MX (internal), H350 Adapter, H355 Adapter, H355 Front, S150 Software RAID); and Series 12 Family (PERC H965I Adapter, PERC H965I Front, PERC H965I MX, PERC H965E Adapter, HBA465I Adapter, HBA465I Front, S160 Software RAID). Other Dell PowerEdge RAID Controllers may also be used in conjunction with the Dell PowerEdge Rack Servers to infringe the '544 Patent. Charts establishing Dell's infringement, each of which show an exemplary PowerEdge RAID Controller compatible with each of the 13th, 14th, 15th, and 16th Generations of the Dell PowerEdge Rack Servers, have been provided herewith. See Ex. 1 (S130 Controller, which is compatible with 13th Generation PowerEdge servers); Ex. 2 (S140 Controller, which is compatible with 14th Generation PowerEdge servers); Ex. 3 (S150 Controller, which is compatible with 15th Generation PowerEdge servers); Ex. 4 (S160 Controller, which is compatible with 16th Generation PowerEdge servers). The S130, S140, S150, and S160 controllers are merely exemplary, as there are numerous PowerEdge RAID Controllers that are used by the Dell PowerEdge servers. See <https://www.dell.com/support/kbdoc/en-us/000131648/list-ofpowerededge-raid-controller-perc-types-for-dell-emc-systemsand>.

The Accused Products for the '632 Patent include at least the Dell Server Products and the following Dell products: Dell PowerEdge servers that use Integrated Dell Remote Access Controller ("iDRAC") 9 with firmware version 4.x through 7.x, which include at least the 14th generation (C4140, C6400, C6420, FC640, M640, M640 (for PE VRTX), MX5016s, MX7000,

MX740c, MX840c, R240, R340, R440, R540, R640, R6415, R740, R740xd, R740xd2, R7415, R7425, R840, R940, R940xa, T40, T140, T340, T440, T640, XE2420, XE7100, XE7420, XE7440, XR2), the 15th generation (C6520, C6525, MX750c, R250, R350, R450, R550, R650, R650xs, R6515, R6525, R750, R750xa, R750xs, R7515, R7525, T150, T350, T550, XE8545, XR4000r, XR4000w, XR4000z, XR4510c, XR4520c, XR11, XR12), the 16th generation (C6600, C6615, C6620, HS5610, HS5620, MX760c, R260, R360, R660, R660xs, R6615, R6625, R760, R760xa, R760xd2, R760xs, R7615, R7625, R860, R960, T160, T360, T560, XE8640, XE9640, XE9680, XR5610, XR7620, XR8000r, XR8610t, XR8620t), and the 17th generation (R670 CSP Edition, R770 CSP Edition) of the PowerEdge servers, and all other Dell servers that incorporate iDRAC 9 with firmware version 4.x through 7.x with substantially similar functionality.

The Accused Products for the '177 Patent include at least the Dell Networking Products and the following Dell products: Dell switches that support OpenFlow (and server systems including same), which at least include Dell PowerSwitch S-series (S3048-ON, S3100, S3124F, S3124P, S3148P, S4048T-ON, S4048-ON, S4100-ON, S4112T-ON, S4128F-ON, S4128T-ON, S4147FE-ON, S4148U-ON, S4148T-ON, S4248FB-ON, F4248FBL-ON, S4180, S4820T, S5000, S5048F-ON, S5148F-ON, S5200-ON, S5212F-ON, S5232F-ON, S5224F-ON, S5296F-ON, S5448F-ON, S6000, S6000-ON, S6010-ON, S6100-ON); N-series (N1100-ON, N1108EP-ON, N1108T-ON, N1124P-ON, N1124T-ON, N1148P-ON, N1148T-ON, N1500, N1524, N1524P, N1548, N1548P, N2000, N2024, N2024P, N2048, N2048P, N2100-ON, N2128PX-ON, N2224PX-ON, N2224X-ON, N2248PX-ON, N2248X-ON, N3000, N3024, N3024EF-ON, N3024EP-ON, N3024ET-ON, N3024F, N3024P, N3048, N3048EP-ON, N3048ET-ON, N3048P, N3100-ON, N3132PX-ON, N3208PX-ON, N3224T-ON, N3224P-ON, N3224F-ON, N3224PX-ON, N3248P-ON, N3248X-ON, N3248PXE-ON, N3248TE-ON, N3248X-ON, N4000, N4032,

N4032F, N4064, N4064F); Z-series (Z9000, Z9100, Z9100-ON, Z9264F-ON, Z9332F-ON, Z9432F-ON, Z9500, Z9664F-ON, Z9864F-ON); E-series (E3224F-ON, E3248P-ON, and E3248PXE-ON); FN IOM; and M-series (MXL), and all other Dell switches with substantially similar functionality.

The Accused Products for the '265 Patent include at least the Dell Server Products and the following Dell products: Dell PowerEdge servers, which include at least the 14th Generation PowerEdge servers (R940); 15th Generation PowerEdge servers (R650, R6525, R750, R750xa, R7525); 16th Generation PowerEdge servers (R660, R960, R6615, R6625, R760, R7625, R860); and 17th Generation PowerEdge servers (R670 CSP Edition, R770 CSP Edition), and all other Dell servers with substantially the same internal layout as these systems.

The Accused Products for the '320 Patent include at least the Dell Server Products and the following Dell products: Dell PowerEdge servers, which include at least the 13th generation (C4130, C6300, C6320, C6320p, FC430, FC630, FC830, FD332, FM120x4 (for PE FX2/FS2s), FX2/FS2s, M630, M630 (for PE VRTX), M830, M830 (for PE VRTX), R230, R330, R430, R530, R530xd, R630, R730, R730xd, R830, R930, T30, T130, T330, T430, T630), the 14th generation (C4140, C6400, C6420, FC640, M640, M640 (for PE VRTX), MX5016s, MX7000, MX740c, MX840c, R240, R340, R440, R540, R640, R6415, R740, R740xd, R740xd2, R7415, R7425, R840, R940, R940xa, T40, T140, T340, T440, T640, XE2420, XE7100, XE7420, XE7440, XR2), the 15th generation (C6520, C6525, MX750c, R250, R350, R450, R550, R650, R650xs, R6515, R6525, R750, R750xa, R750xs, R7515, R7525, T150, T350, T550, XE8545, XR4000r, XR4000w, XR4000z, XR4510c, XR4520c, XR11, XR12), the 16th generation (C6600, C6615, C6620, HS5610, HS5620, MX760c, R260, R360, R660, R660xs, R6615, R6625, R760, R760xa, R760xd2, R760xs, R7615, R7625, R860, R960, T160, T360, T560, XE8640, XE9640, XE9680,

XR5610, XR7620, XR8000r, XR8610t, XR8620t), and the 17th generation (R670 CSP Edition, R770 CSP Edition) of the PowerEdge servers, and all other Dell servers with substantially similar functionality.

The Accused Products for the '249 Patent include at least the Dell Networking Products and the following Dell products: Dell switches that support OpenFlow (and server systems including same), which at least include Dell PowerSwitch E-series (E3224F-ON, E3248P-ON, E3248PXE-ON), FN-series (FN IOM), MX-series (MXL), N-series (N1108EP-ON, N1108T-ON, N1124P-ON, N1124T-ON, N1148P-ON, N1148T-ON, N1524, N1524P, N1548, N1548P, N2024, N2024P, N2048, N2048P, N2128PX-ON, N2224PX-ON, N2224X-ON, N2248PX-ON, N2248X-ON, N3024, N3024EF-ON, N3024EP-ON, N3024ET-ON, N3024F, N3024P, N3048, N3048EP-ON, N3048ET-ON, N3048P, N3132PX-ON, N3208PX-ON, N3224T-ON, N3224P-ON, N3224F-ON, N3224PX-ON, N3248P-ON, N3248X-ON, N3248PXE-ON, N3248TE-ON, N3248X-ON, N4032, N4032F, N4064, N4064F), S-series (S3048-ON, S3124, S3124F, S3124P, S3148, S3148P, S4048-ON, S4048T-ON, S4112F-ON, S4112T-ON, S4128F-ON, S4128T-ON, S4148F-ON, S4148FE-ON, S4148U-ON, S4148T-ON, S4248FB-ON, S4248FBL-ON, S4810, S4820T, S5000, S5048F-ON, S5148F-ON, S5212F-ON, S5232F-ON, S5224F-ON, S5248F-ON, S5296F-ON, S5448F-ON, S6000, S6000-ON, S6010-ON, S6100-ON), and Z-series (Z9000, Z9100-ON, Z9264F-ON, Z9332F-ON, Z9432F-ON, Z9500, Z9664F-ON, Z9864F-ON) switch models, and all other Dell switches with substantially similar functionality.

The Accused Products for the '273 Patent include at least the Dell Server Products and the following Dell products: Dell PowerEdge servers, which include at least the 14th generation (C4140, C6400, C6420, FC640, M640, M640 (for PE VRTX), MX5016s, MX7000, MX740c, MX840c, R240, R340, R440, R540, R640, R740, R740xd, R740xd2, R840, R940, R940xa,

R6415, R7415, R7425, T40, T140, T340, T440, T640, XE2420, XE7100, XE7420, XE7440, XR2), the 15th generation (C6520, C6525, MX750c, R250, R350, R450, R550, R650, R650xs, R750, R750xa, R750xs, R6515, R6525, R7515, R7525, T150, T350, T550, XE8545, XR4000r, XR4000w, XR4000z, XR11, XR12, XR4510c, XR4520c), the 16th generation (C6615, C6620, HS5610, HS5620, MX760c, R260, R360, R660, R660xs, R760, R760xa, R760xd2, R760xs, R860, R960, R7615, R7625, T160, T360, T560, XE8640, XE9640, XE9680, XR5610, XR7620, XR8000, XR8610t, XR8620t), and the 17th generation (R670 CSP Edition, R770 CSP Edition) of PowerEdge models, and all other Dell servers with substantially similar functionality.

Based on the information that it has been able to obtain to date, Cloud Byte separately identifies each Dell Accused Instrumentality for each Asserted Claim applicable to Dell in Cloud Byte's P.R. 3-1(c) claim charts attached as Exhibits 1 to 11.

Cloud Byte believes that discovery from Dell and others will provide additional evidence of the nature and/or scope of Dell's infringement. Accordingly, Cloud Byte reserves the right to supplement and/or amend this disclosure to identify and accuse additional Dell Accused Instrumentalities released, developed, or made available by Dell after the date on which these disclosures are served, or of which Cloud Byte was not aware at the time of these disclosures.

(c) A chart identifying specifically where each element of each asserted claim is found within each Accused Instrumentality, including for each element that such party contends is governed by 35 U.S.C. § 112 (¶ 6), the identity of the structure(s), act(s), or material(s) in the Accused Instrumentality that performs the claimed function

Pursuant to P.R. 3-1(c), claim charts for Dell's infringement of the Asserted Claims of the Patents-in-Suit are set forth as Exhibits 1 to 11. The charts are based on information currently known to Cloud Byte and contain illustrative (not exhaustive) examples of presently known infringement of the Asserted Claims.

As explained above, Cloud Byte believes that discovery from Dell and others will provide additional evidence of the nature and/or scope of Dell's infringement. Accordingly, Cloud Byte reserves the right to amend, supplement, or otherwise revise the Accused Instrumentalities and its infringement contentions and claim charts.

(d) Whether each element of each asserted claim is claimed to be literally present or present under the doctrine of equivalents in the Accused Instrumentality

Pursuant to P.R. 3-1(d), Cloud Byte asserts that, under the proper construction of the Asserted Claims and their claim terms, every limitation of the Asserted Claims of the Patents-in-Suit is literally present in Dell's instrumentalities accused of infringing the claims. However, to the extent any claim element or step is found to be not literally present in or performed by the Accused Instrumentalities, based on the Court's claim construction or Dell's arguments, such claim element or step is satisfied under the doctrine of equivalents because any difference between such claim element or step and the element or step of the Accused Instrumentalities is insubstantial. In other words, the element or step of the Accused Instrumentalities performs substantially the same function, in substantially the same way, to achieve substantially the same result. Further detail regarding the claim limitations Cloud Byte asserts that Dell infringes under the doctrine of equivalents can be found in Cloud Byte's P.R. 3-1(c) claim charts attached as Exhibits 1 to 11.

(e) For any patent that claims priority to an earlier application, the priority date to which each asserted claim allegedly is entitled

The Asserted Claims of the '544 Patent are entitled to a priority date no later than March 10, 2005. The Asserted Claims of the '632 Patent are entitled to a priority date no later than September 5, 2012. The Asserted Claims of the '177 Patent are entitled to a priority date no later than February 17, 2011. The Asserted Claims of the '265 Patent are entitled to a priority date no later than March 5, 2012. The Asserted Claims of the '320 Patent are entitled to a priority date no

later than March 2, 2012. The Asserted Claims of the '249 Patent are entitled to a priority date no later than September 14, 2009. The Asserted Claims of the '273 Patent are entitled to a priority date no later than January 30, 2015. For each Asserted Claim, Cloud Byte reserves the right to assert priority to earlier conception and reduction to practice dates earlier than the earliest priority date.

Cloud Byte may rely on additional evidence to demonstrate earlier dates of conception, reduction to practice, and/or diligence in reducing to practice. *See EMG Tech., LLC v. Chrysler Grp., LLC*, No. 6:12-CV-259, 2013 WL 12147662, at *2 (E.D. Tex. July 3, 2013).

(f) If a party claiming patent infringement wishes to preserve the right to rely, for any purpose, on the assertion that its own apparatus, product, device, process, method, act, or other instrumentality practices the claimed invention, the party must identify, separately for each asserted claim, each such apparatus, product, device, process, method, act, or other instrumentality that incorporates or reflects that particular claim

Cloud Byte is still investigating this matter, however, at this time Cloud Byte is not relying on the assertion that its own apparatus, product, device, process, method, act, or other instrumentality of its own practices the claimed inventions. Cloud Byte reserves the right to supplement and/or amend this disclosure to identify any apparatus, product, device, process, method, act, or other instrumentality of its own that practices the Asserted Claims of which Cloud Byte was not aware at the time of these disclosures.

B. CLOUD BYTE'S RULE 3-2 PRODUCTION OF DOCUMENTS

(a) Documents (e.g., contracts, purchase orders, invoices, advertisements, marketing materials, offer letters, beta site testing agreements, and third party or joint development agreements) sufficient to evidence each discussion with, disclosure to, or other manner of providing to a third party, or sale of or offer to sell, the claimed invention prior to the date of application for the patent in suit. A party's production of a document as required herein shall not constitute an admission that such document evidences or is prior art under 35 U.S.C. §102

Cloud Byte is not presently aware of documents responsive to P.R. 3-2(a). Cloud Byte's investigation is ongoing and Cloud Byte will supplement its document production in the event responsive documents are located.

(b) All documents evidencing the conception, reduction to practice, design, and development of each claimed invention, which were created on or before the date of application for the patent in suit or the priority date identified pursuant to P. R. 3-1(e), whichever is earlier

In addition to information included in the file histories noted below, documents responsive to P.R. 3-2(b) have been produced to Dell as follows: CLOUDBYTE0002647–CLOUDBYTE0002781. As discovery is ongoing and Cloud Byte's search for documents is ongoing, Cloud Byte reserves the right to supplement its production and disclosures as information is ascertained during discovery.

Cloud Byte's investigation is ongoing and Cloud Byte will supplement its document production in the event responsive documents are located.

(c) A copy of the file history for each patent in suit

Documents responsive to P.R. 3-2(c) have been produced to Dell as follows:

The '544 Patent file history: CLOUDBYTE0000691–CLOUDBYTE0000914;

The '632 Patent file history: CLOUDBYTE0000915–CLOUDBYTE0001190;

The '177 Patent file history: CLOUDBYTE0001191–CLOUDBYTE0001353;

The '265 Patent file history: CLOUDBYTE0001354–CLOUDBYTE0001672;

The '320 Patent file history: CLOUDBYTE0001673–CLOUDBYTE0001929;

The '249 Patent file history: CLOUDBYTE0001930–CLOUDBYTE0002646; and

The '273 Patent file history: CLOUDBYTE0000001–CLOUDBYTE0000690.

Cloud Byte's investigation is ongoing and Cloud Byte will supplement its document production in the event responsive documents are located.

Dated: November 21, 2024

/s/ Yury Kapgan

Yury Kapgan (admitted in EDTX)
yurykapgan@quinnemanuel.com
Ryan Goldstein (admitted in EDTX)
ryangoldstein@quinnemanuel.com
**QUINN EMANUEL URQUHART &
SULLIVAN, LLP**
865 S. Figueroa St., 10th Floor
Los Angeles, California 90017
Telephone: (213) 443-3000
Facsimile: (213) 443-3100

Brian Mack (admitted in EDTX)
brianmack@quinnemanuel.com
**QUINN EMANUEL URQUHART &
SULLIVAN, LLP**
50 California Street, 22nd Floor
San Francisco, CA 94111
Telephone: (415) 875-6400
Facsimile: (415) 875-6700

Of Counsel:

Claire Abernathy Henry
Texas State Bar No. 24053063
Andrea Fair
Texas State Bar No. 24078488
MILLER FAIR HENRY PLLC
1507 Bill Owens Parkway
Longview, TX 75604
Telephone: (903) 757-6400
Fax: (903) 757-2323
claire@millerfairhenry.com
andrea@millerfairhenry.com

Attorneys for Plaintiff Cloud Byte LLC.

CERTIFICATE OF SERVICE

I certify that a true and correct copy of the above document was served by email with exhibits served via FTP on counsel of record for Dell on November 21, 2024.

/s/ Yury Kapgan

**CloudByte's Patent Initial Disclosures For Dell
Exhibit 7**

UNITED STATES PATENT NO. 9,629,265

INFRINGEMENT CHART FOR CLAIMS 1–8¹

'265 Patent Claim² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found³ (P.R. 3-1(b)-(c))
[1pre] An electronic device comprising: ⁴	The Accused Dell '265 Products are electronic devices.

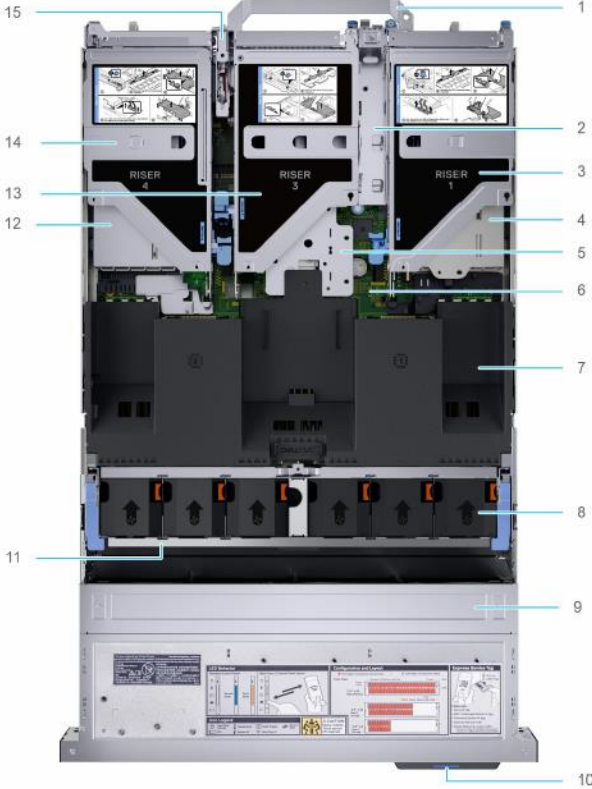
¹ The infringement contentions provided herein are based on information obtained to date and may not be exhaustive. CloudByte's investigation of Dell's infringement is ongoing. CloudByte reserves the right to supplement and/or amend these disclosures to identify additional Asserted Claims (P.R. 3-1(a)), to identify additional Accused Instrumentalities (P.R. 3-1(b)), and to further identify where each element of each Asserted Claim is found in each Accused Instrumentality (P.R. 3-1(c)), including on the basis of discovery obtained from Dell and from third-parties during the course of this litigation.

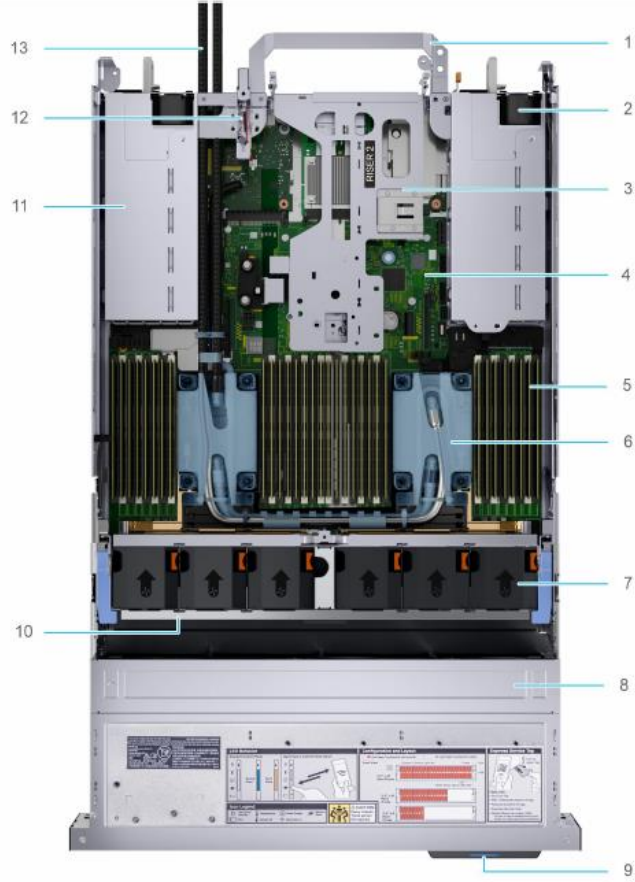
² All infringement contentions set forth herein for any independent patent claims are hereby incorporated by reference into the infringement contentions alleged for any dependent patent claims that depend on such independent claims, as if fully set forth therein.

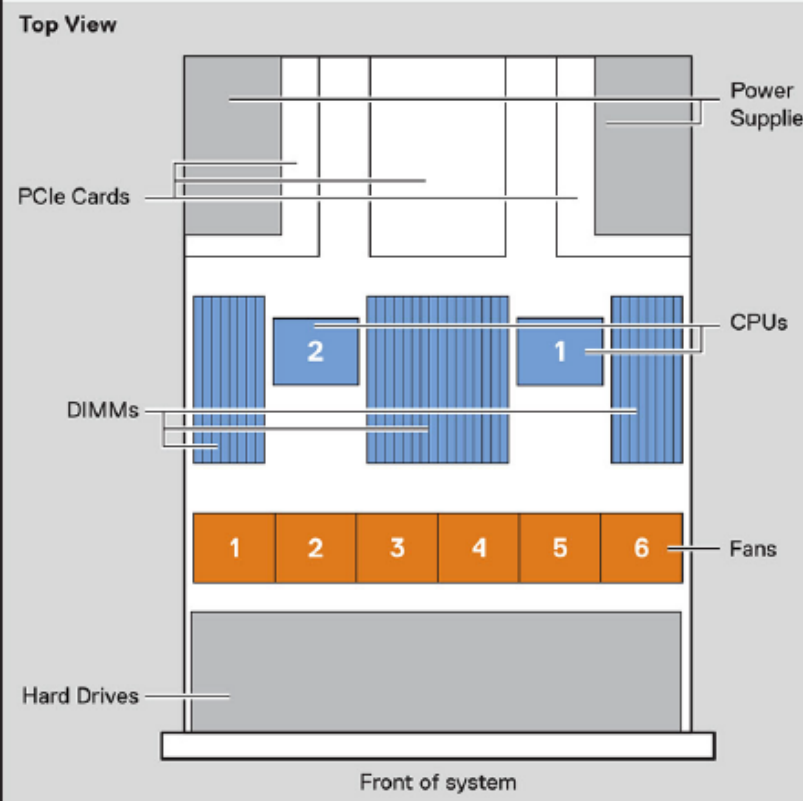
³ The Accused Instrumentalities and associated exhibits discussed and/or cited for any claim herein are representative in all material respects of all other Accused Instrumentalities identified for that claim (e.g., although various servers may have immaterial differences in their hardware, firmware, and/or software configuration, the cited references are believed to be illustrative of all such accused server models). For example, on information and belief, the internal server or rack layout of the Dell PowerEdge servers identified as Accused Instrumentalities is substantially similar to the layout shown here. On information and belief, there are no material differences in the server or rack layout among the Dell PowerEdge servers identified as Accused Instrumentalities that would substantially alter the infringement read shown here. *See, e.g.*, CLOUDBYTE0005739-0008862, CLOUDBYTE0021015-0021339. The illustrative documentation cited herein is for the Dell PowerEdge R750 server (hereinafter "Installation and Service Manual"), which is dated March 2024, and can be found at the following Bates No: CLOUDBYTE0007521-0007774. Other Dell servers, including Dell PowerEdge servers from the 14th to 17th generation identified as Accused Instrumentalities, also infringe the claims of the '265 Patent. *See, e.g.*, CLOUDBYTE0005739-0008862, CLOUDBYTE0021015-0021339.

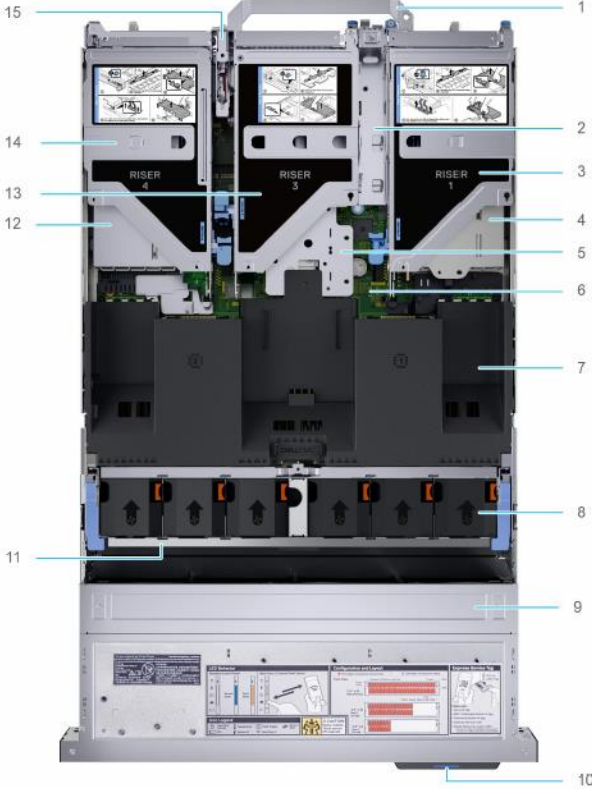
⁴ CloudByte's inclusion of any claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. CloudByte reserves the right to take the position that the claim preambles are limiting or not limiting on a claim-by-claim basis.

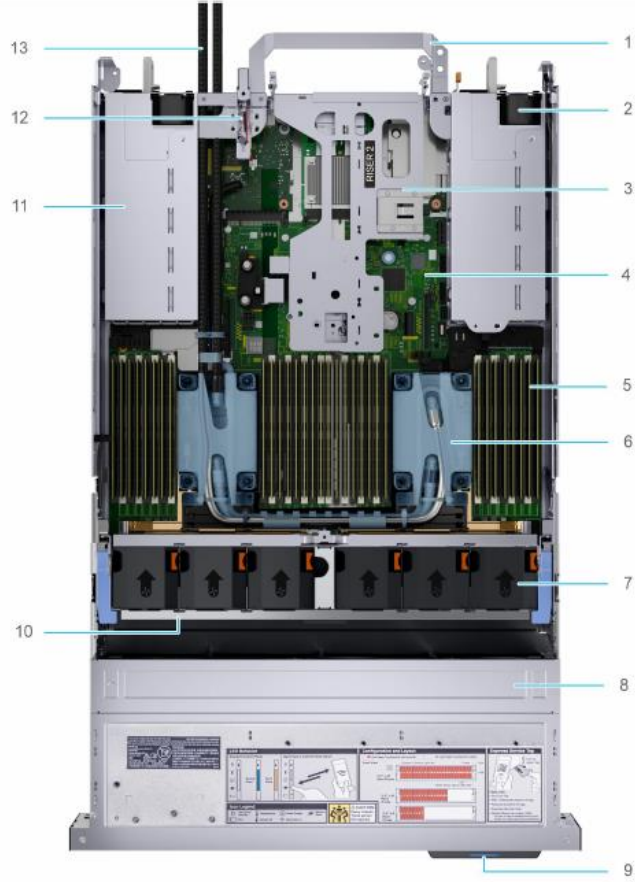
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	<i>See, e.g.,:</i> System overview The Dell EMC PowerEdge R750 is a dual socket, 2U rack system that supports: • Two 3rd Generation Intel Xeon Scalable processors • 32 DDR4 DIMM slots • Two redundant AC or mixed mode power supply units • Up to 12 x 3.5-inch, or 24 x 2.5-inch, 16 x 2.5-inch, 8 x 2.5-inch (rear), 4 x 2.5-inch (rear), SAS, SATA, or NVMe drives NOTE: For more information about how to hot swap NVMe PCIe SSD U.2 device, see the <i>Dell Express Flash NVMe PCIe SSD User's Guide</i> at https://www.dell.com/support Browse all Products > Data Center Infrastructure > Storage Adapters & Controllers > Dell PowerEdge Express Flash NVMe PCIe SSD > Documentation > Manuals and Documents. NOTE: All instances of SAS, SATA drives, PCIe SSDs, and NVMe are referred to as drives in this document, unless specified otherwise. CAUTION: Do not install GPUs, network cards, or other PCIe devices on your system that are not validated and tested by Dell. Damage caused by unauthorized and invalidated hardware installation will null and void the system warranty. NOTE: For more information, see the <i>Dell EMC PowerEdge R750 Technical Specifications</i> on the product documentation page. Topics: • Front view of the system • Rear view of the system • Inside the system • Locating the Express Service Code and Service Tag • System information label • Rail sizing and rack compatibility matrix Front view of the system  Installation and Service Manual (CLOUDBYTE0007521-0007774), 9.

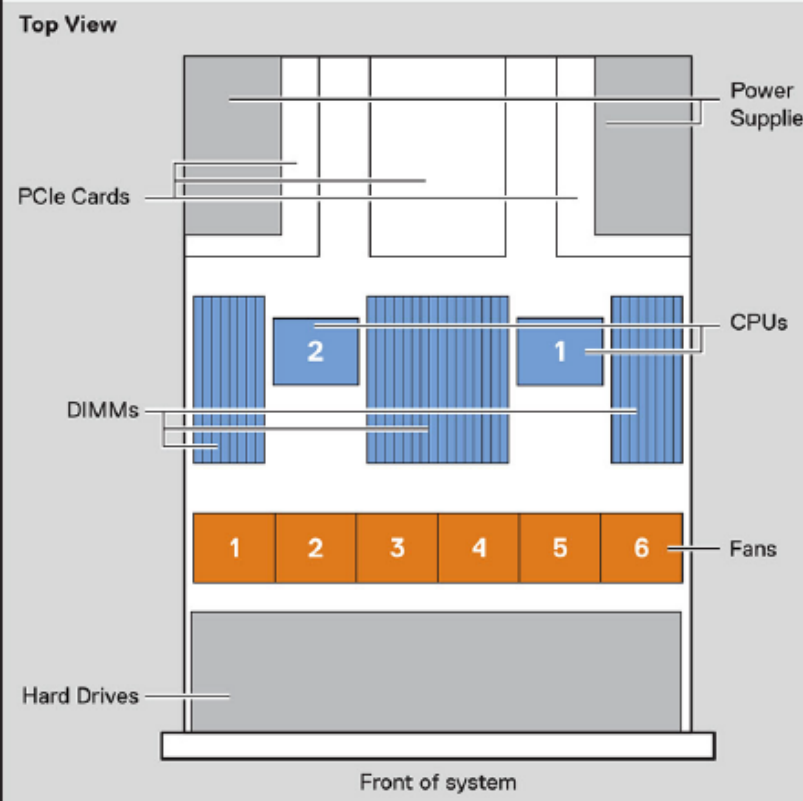
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))																
	Inside the system  Figure 11. Inside the system <table border="0" data-bbox="611 1198 1283 1377"> <tbody> <tr> <td data-bbox="611 1198 688 1218">1. Handle</td><td data-bbox="1066 1198 1245 1218">2. BOSS S2 module bay</td></tr> <tr> <td data-bbox="611 1219 688 1239">3. Riser 1</td><td data-bbox="1066 1219 1283 1239">4. Power supply unit (PSU 1)</td></tr> <tr> <td data-bbox="611 1240 726 1260">5. Riser 2 cage</td><td data-bbox="1066 1240 1192 1260">6. System board</td></tr> <tr> <td data-bbox="611 1261 709 1281">7. Air shroud</td><td data-bbox="1066 1261 1178 1281">8. Cooling fan</td></tr> <tr> <td data-bbox="611 1282 793 1302">9. Drive backplane cover</td><td data-bbox="1066 1282 1178 1302">10. Service tag</td></tr> <tr> <td data-bbox="611 1304 825 1323">11. Cooling fan cage assembly</td><td data-bbox="1066 1304 1283 1323">12. Power supply unit (PSU 2)</td></tr> <tr> <td data-bbox="611 1325 688 1344">13. Riser 3</td><td data-bbox="1066 1325 1144 1344">14. Riser 4</td></tr> <tr> <td data-bbox="611 1346 804 1365">15. Intrusion switch module</td><td></td></tr> </tbody> </table> Installation and Service Manual, 17.	1. Handle	2. BOSS S2 module bay	3. Riser 1	4. Power supply unit (PSU 1)	5. Riser 2 cage	6. System board	7. Air shroud	8. Cooling fan	9. Drive backplane cover	10. Service tag	11. Cooling fan cage assembly	12. Power supply unit (PSU 2)	13. Riser 3	14. Riser 4	15. Intrusion switch module	
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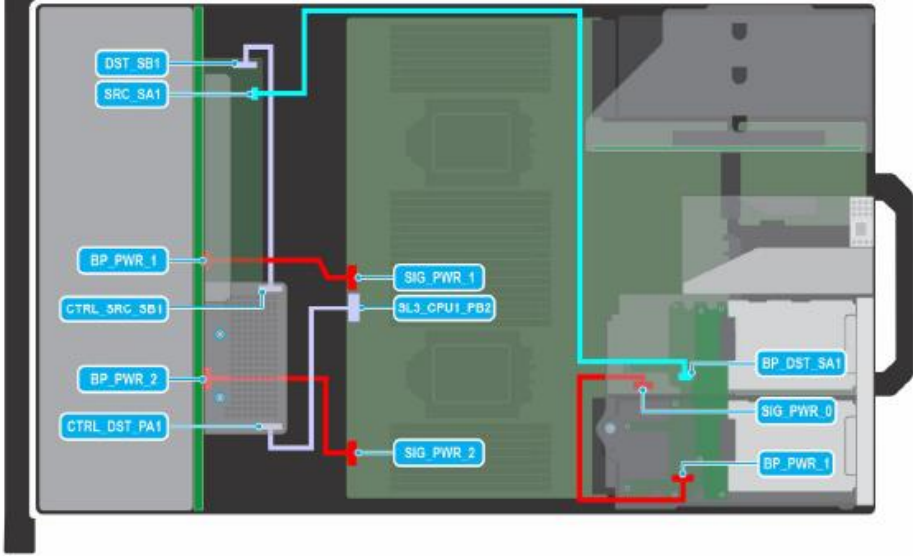
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	 Figure 13. Inside the system with liquid cooling module <table border="0"> <tbody> <tr> <td>1. Handle</td><td>2. Power supply unit (PSU 1)</td></tr> <tr> <td>3. Riser 2</td><td>4. System board</td></tr> <tr> <td>5. Memory DIMM sockets</td><td>6. Liquid cooling module</td></tr> <tr> <td>7. Cooling fan</td><td>8. Drive backplane</td></tr> <tr> <td>9. Service tag</td><td>10. Cooling fan cage assembly</td></tr> <tr> <td>11. Power supply unit (PSU 2)</td><td>12. Intrusion switch module</td></tr> <tr> <td>13. Liquid cooling module tubes</td><td></td></tr> </tbody> </table> Installation and Service Manual, 19.	1. Handle	2. Power supply unit (PSU 1)	3. Riser 2	4. System board	5. Memory DIMM sockets	6. Liquid cooling module	7. Cooling fan	8. Drive backplane	9. Service tag	10. Cooling fan cage assembly	11. Power supply unit (PSU 2)	12. Intrusion switch module	13. Liquid cooling module tubes	
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview  Installation and Service Manual, 21.
[1a] a housing comprising a front face and a rear face which are distanced from each other in a longitudinal direction;	The Accused Dell '265 Products include a housing comprising a front face and a rear face which are distanced from each other in a longitudinal direction. <i>See, e.g.,:</i>

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))																
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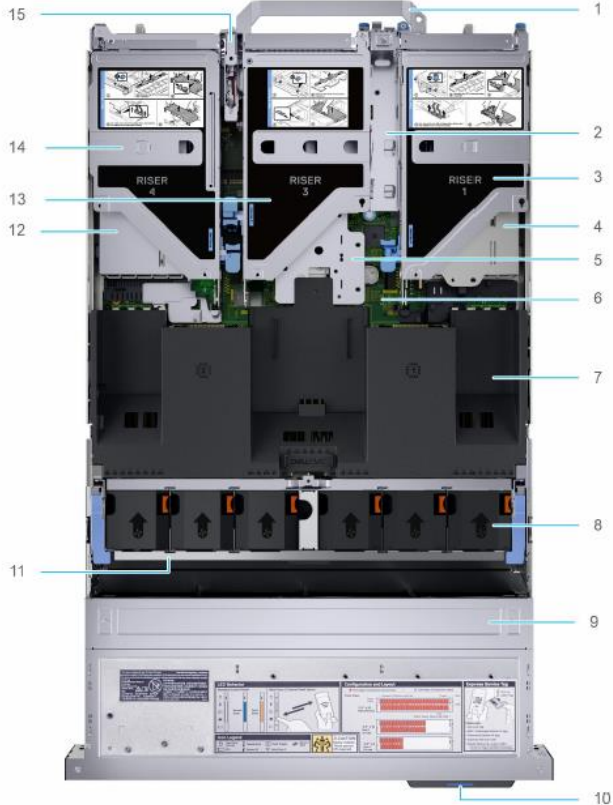
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	 Figure 13. Inside the system with liquid cooling module <table border="0"> <tbody> <tr> <td>1. Handle</td><td>2. Power supply unit (PSU 1)</td></tr> <tr> <td>3. Riser 2</td><td>4. System board</td></tr> <tr> <td>5. Memory DIMM sockets</td><td>6. Liquid cooling module</td></tr> <tr> <td>7. Cooling fan</td><td>8. Drive backplane</td></tr> <tr> <td>9. Service tag</td><td>10. Cooling fan cage assembly</td></tr> <tr> <td>11. Power supply unit (PSU 2)</td><td>12. Intrusion switch module</td></tr> <tr> <td>13. Liquid cooling module tubes</td><td></td></tr> </tbody> </table> Installation and Service Manual, 19.	1. Handle	2. Power supply unit (PSU 1)	3. Riser 2	4. System board	5. Memory DIMM sockets	6. Liquid cooling module	7. Cooling fan	8. Drive backplane	9. Service tag	10. Cooling fan cage assembly	11. Power supply unit (PSU 2)	12. Intrusion switch module	13. Liquid cooling module tubes	
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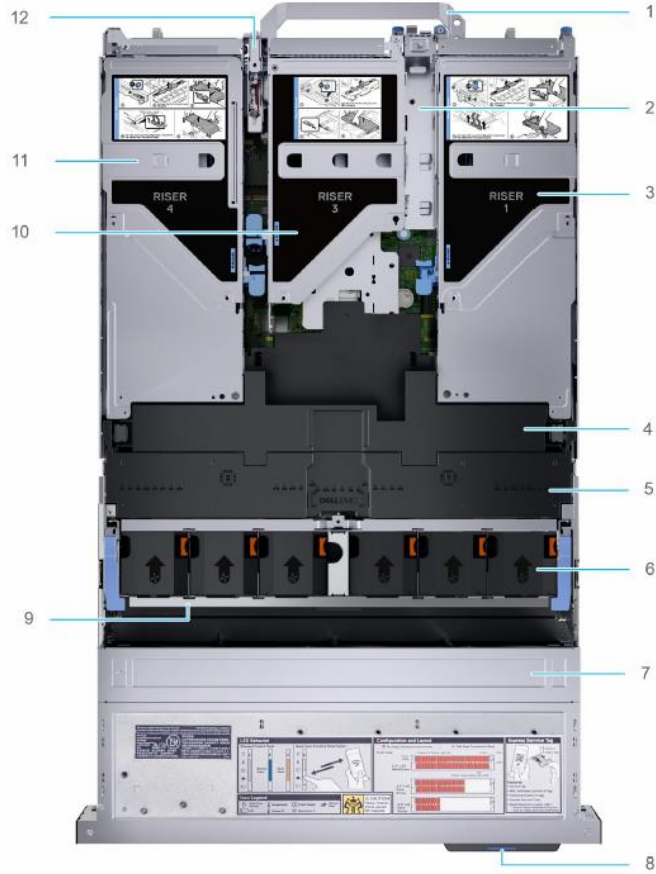
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
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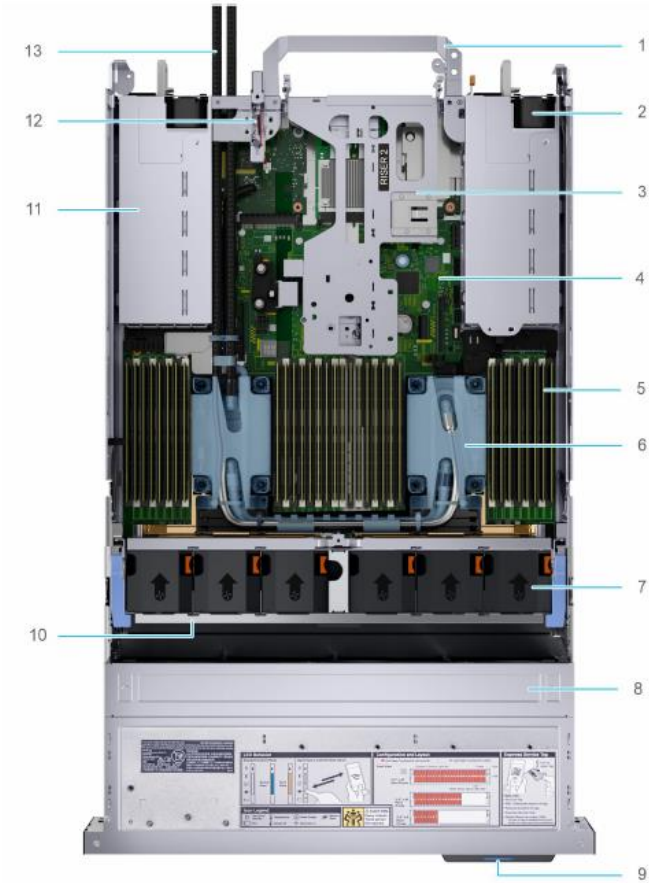
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 89. 24 x 2.5-inch SAS/SATA + 4 x 2.5-inch SAS with expander and fPERC Installation and Service Manual, 86.

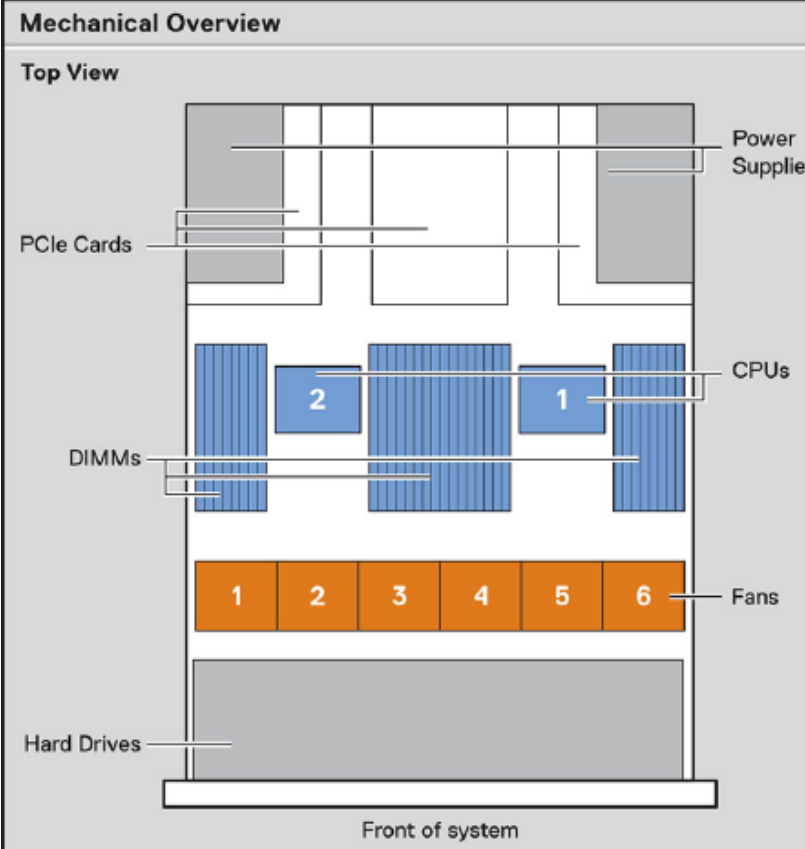
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 200.

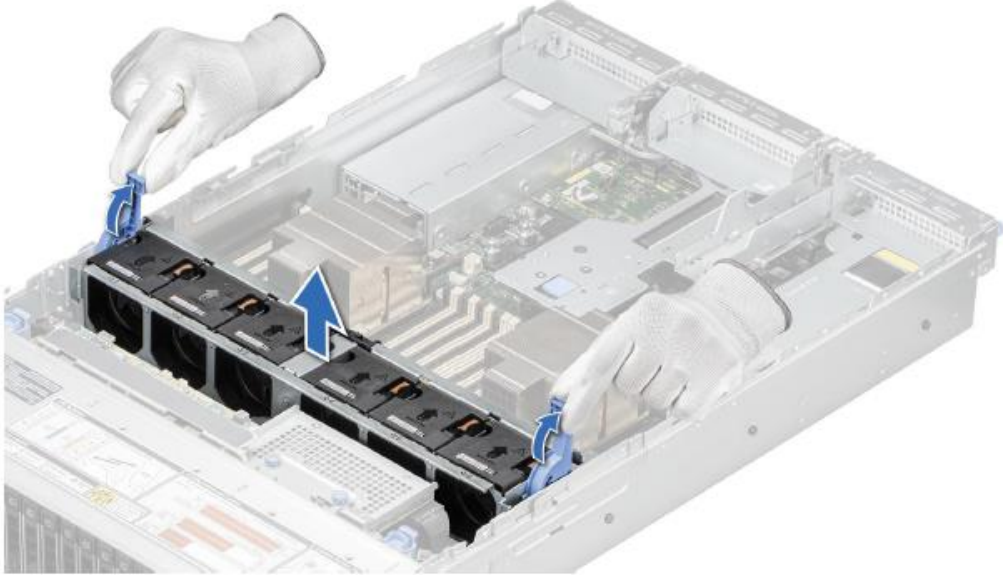
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	<i>See</i> 1[pre].
[1b] a plurality of fans which are arranged inside the housing close to the front face so as to cause cooling air to flow downstream in the longitudinal direction from the front face to the rear face of the housing;	The Accused Dell '265 Products include a plurality of fans which are arranged inside the housing close to the front face so as to cause cooling air to flow downstream in the longitudinal direction from the front face to the rear face of the housing. <i>See, e.g.,:</i>

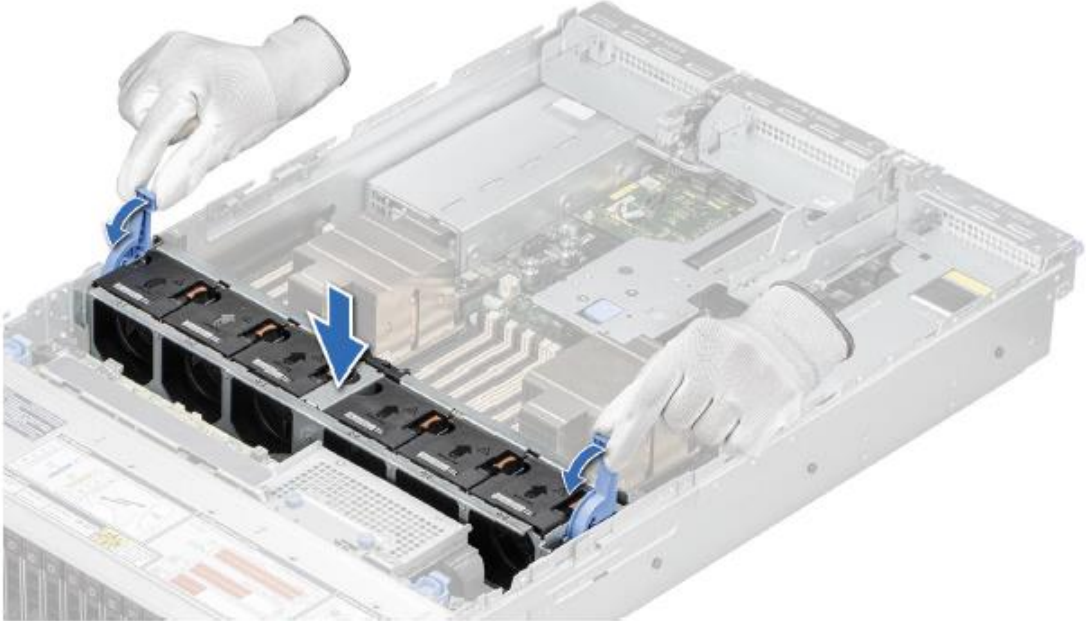
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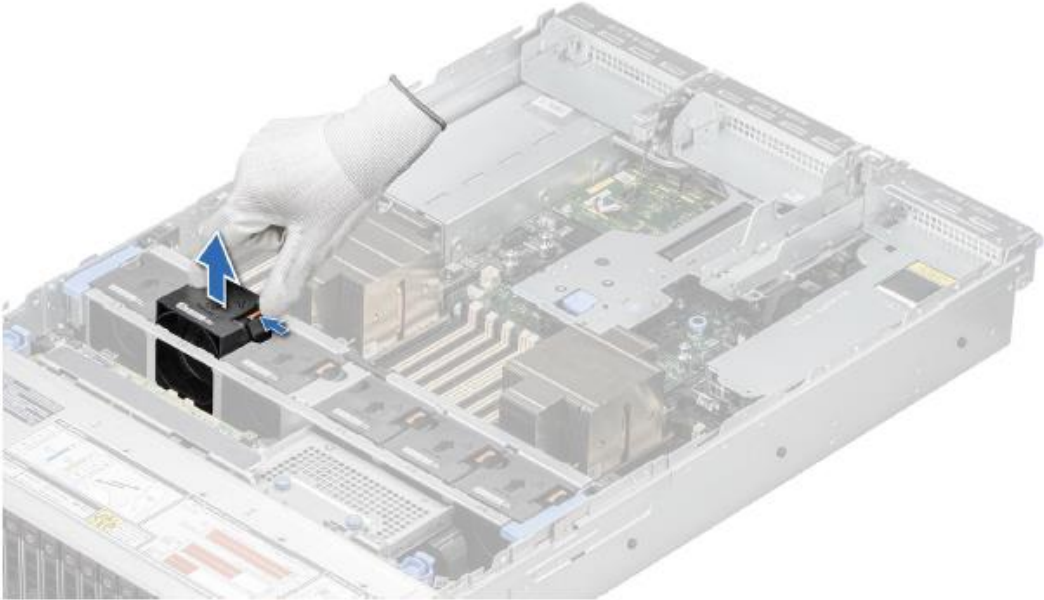
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
	Installation and Service Manual, 17.  Figure 12. Inside the system with full length risers and GPU shroud <table border="0"> <tbody> <tr> <td>1. Handle</td><td>2. BOSS S2 module bay</td></tr> <tr> <td>3. Riser 1</td><td>4. GPU air shroud top cover</td></tr> <tr> <td>5. GPU air shroud</td><td>6. Cooling fan</td></tr> <tr> <td>7. Drive backplane</td><td>8. Service tag</td></tr> <tr> <td>9. Cooling fan cage assembly</td><td>10. Riser 3</td></tr> <tr> <td>11. Riser 4</td><td>12. Intrusion switch module</td></tr> </tbody> </table>	1. Handle	2. BOSS S2 module bay	3. Riser 1	4. GPU air shroud top cover	5. GPU air shroud	6. Cooling fan	7. Drive backplane	8. Service tag	9. Cooling fan cage assembly	10. Riser 3	11. Riser 4	12. Intrusion switch module
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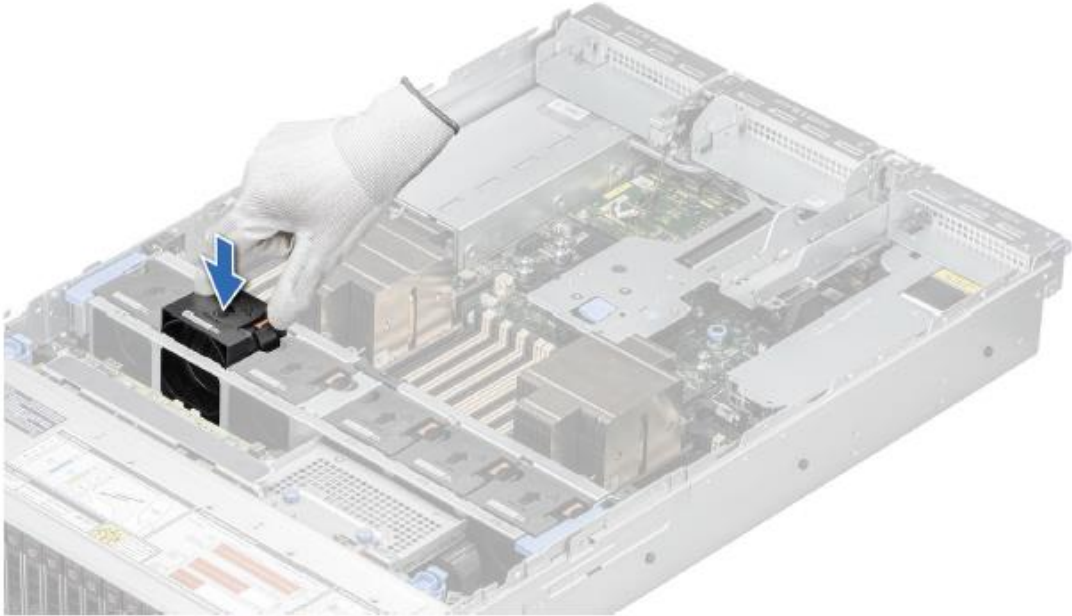
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))														
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Installation and Service Manual, 19.  Installation and Service Manual, 21.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 41. Removing the cooling fan cage assembly Installation and Service Manual, 49.

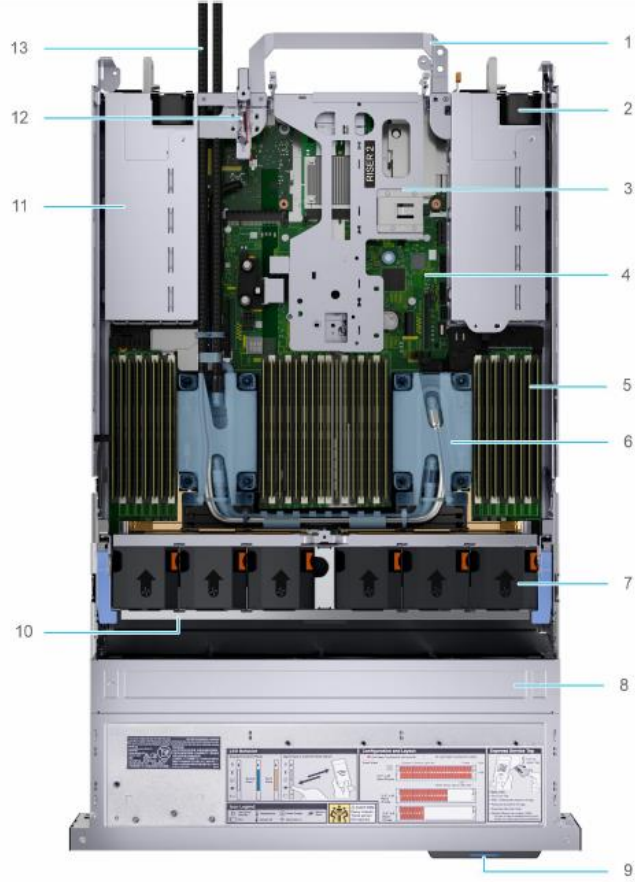
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 42. Installing the cooling fan cage assembly Installation and Service Manual, 50.

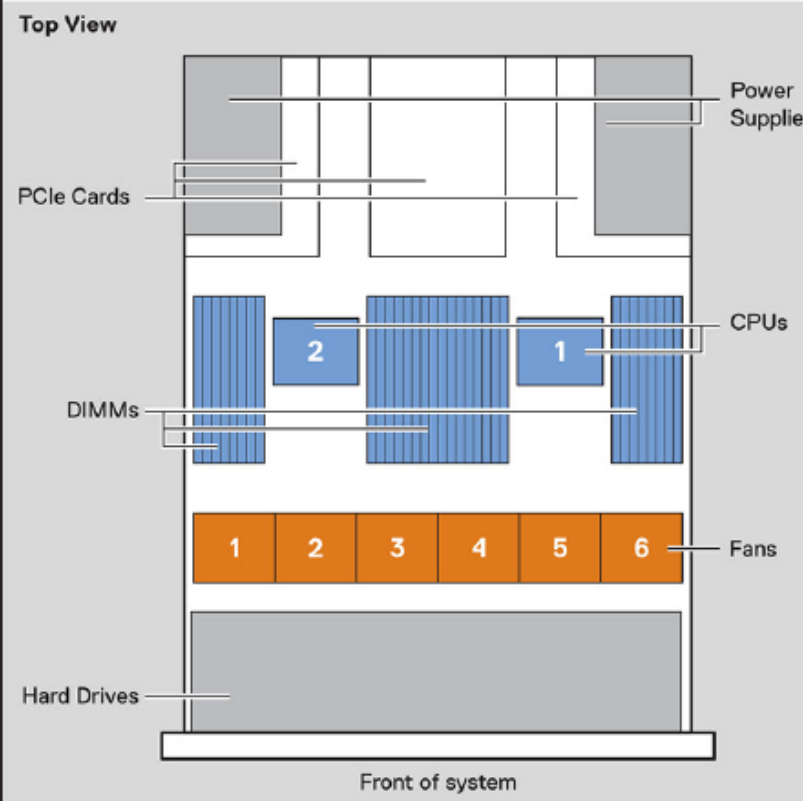
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 43. Removing a cooling fan Installation and Service Manual, 51.

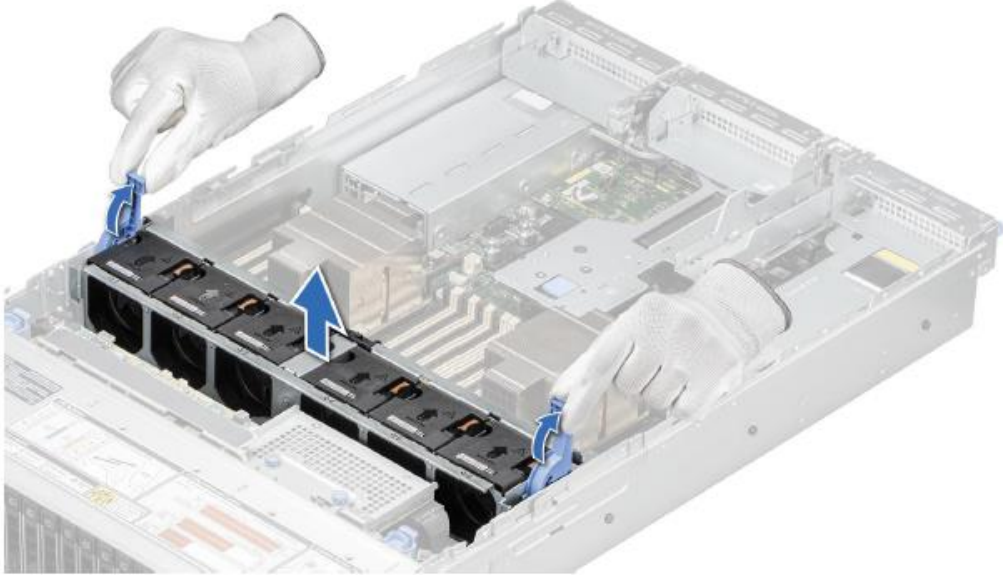
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 44. Installing a cooling fan Installation and Service Manual, 52.

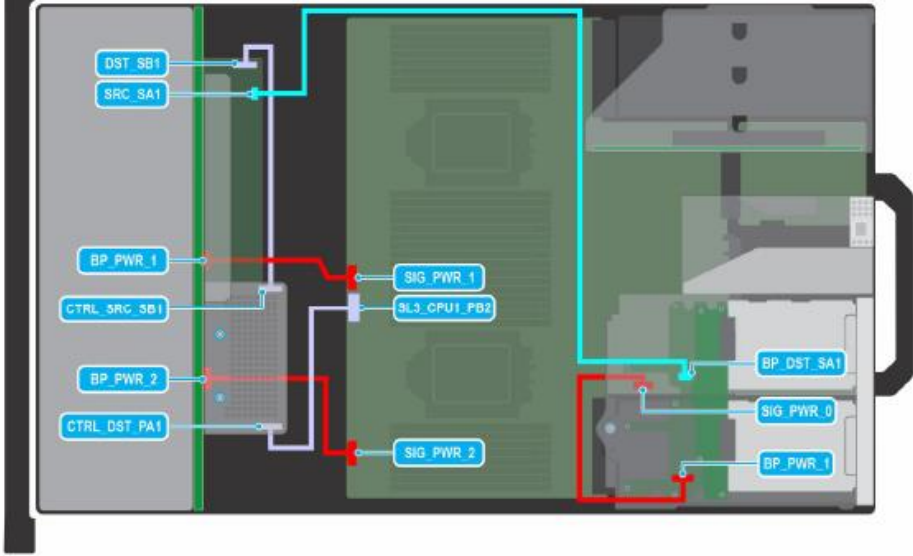
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
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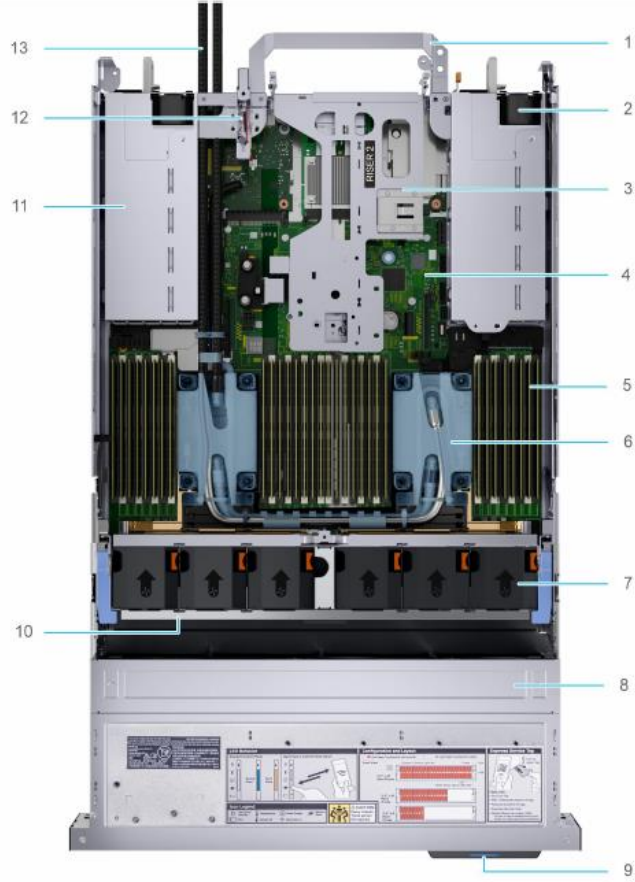
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	<i>See</i> 1[a].
[1c] a central processing unit (CPU) which is arranged downstream of the plurality of fans in the housing and positioned to allow the cooling air to directly flow therethrough;	The Accused Dell '265 Products include a central processing unit (CPU) which is arranged downstream of the plurality of fans in the housing and positioned to allow the cooling air to directly flow therethrough. <i>See, e.g.,:</i>

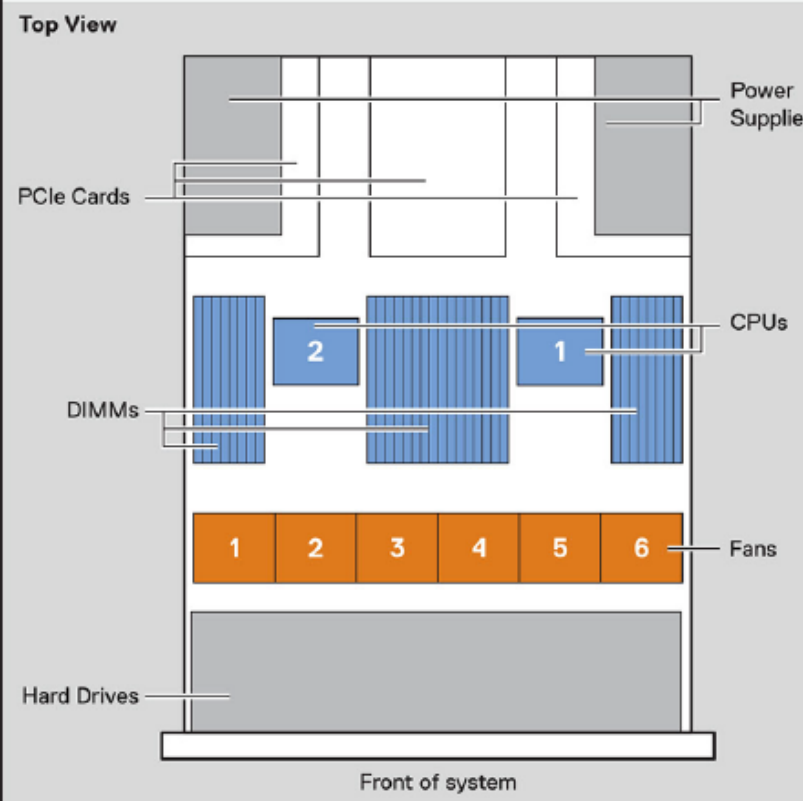
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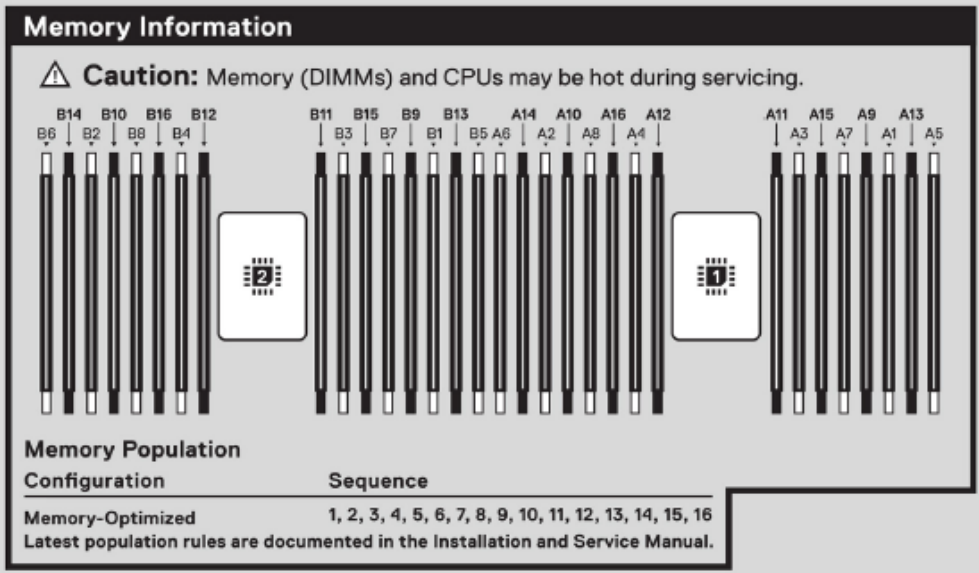
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
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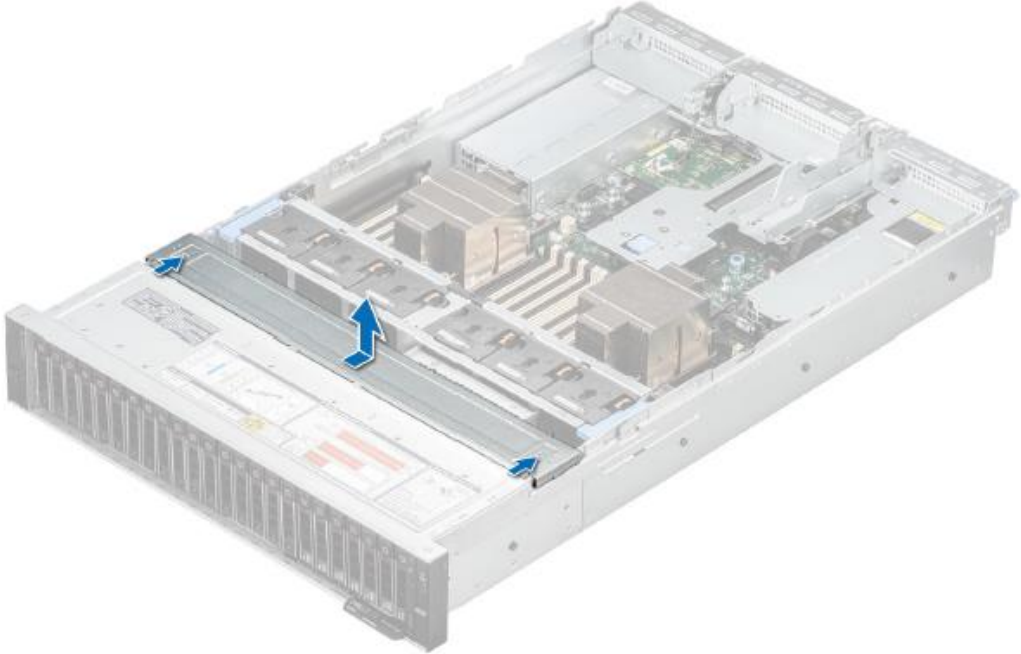
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
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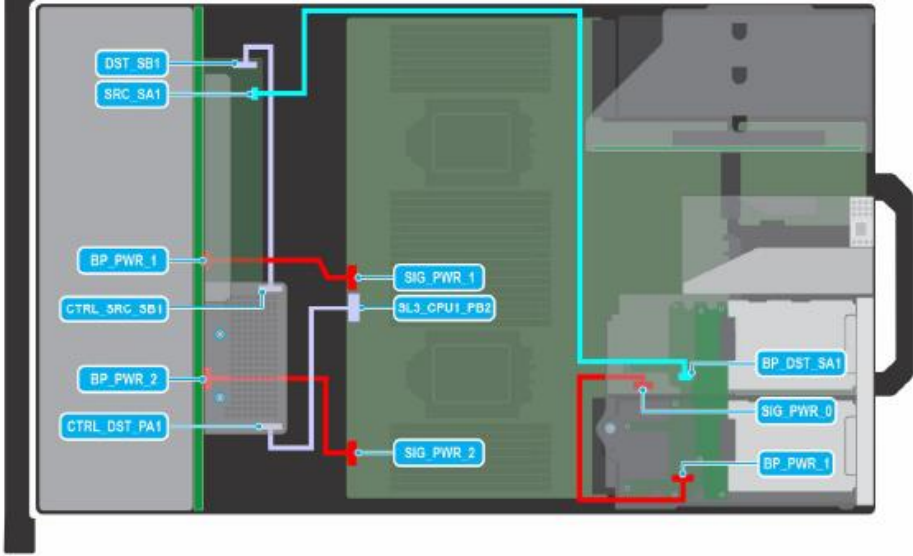
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 89. 24 x 2.5-inch SAS/SATA + 4 x 2.5-inch SAS with expander and fPERC Installation and Service Manual, 86. <i>See 1[b].</i>
[1d] a plurality of memory devices adjacent to the CPU in a width direction, substantially normal to the longitudinal direction, of the housing; and	The Accused Dell '265 Products include a plurality of memory devices adjacent to the CPU in a width direction, substantially normal to the longitudinal direction, of the housing. <i>See, e.g.,:</i>

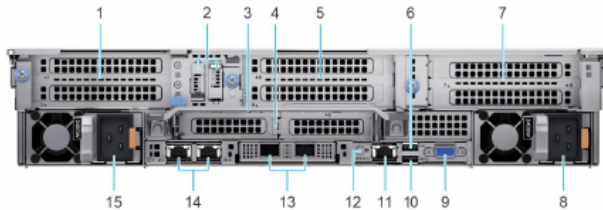
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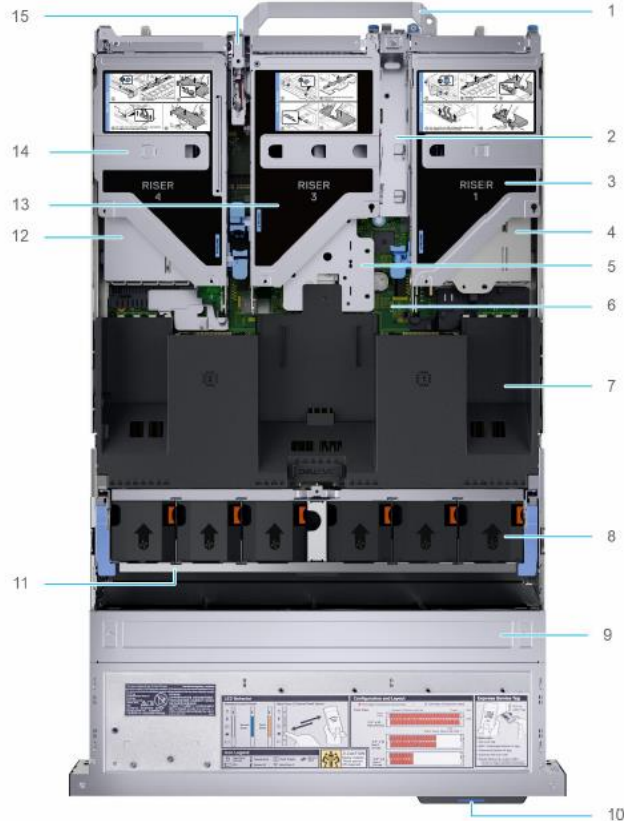
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	 Memory Information Caution: Memory (DIMMs) and CPUs may be hot during servicing. Memory Population Configuration <table border="1"> <thead> <tr> <th>Configuration</th> <th>Sequence</th> </tr> </thead> <tbody> <tr> <td>Memory-Optimized</td> <td>1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16</td> </tr> </tbody> </table> Latest population rules are documented in the Installation and Service Manual. Figure 16. Memory information and system board connectors Installation and Service Manual, 21.	Configuration	Sequence	Memory-Optimized	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
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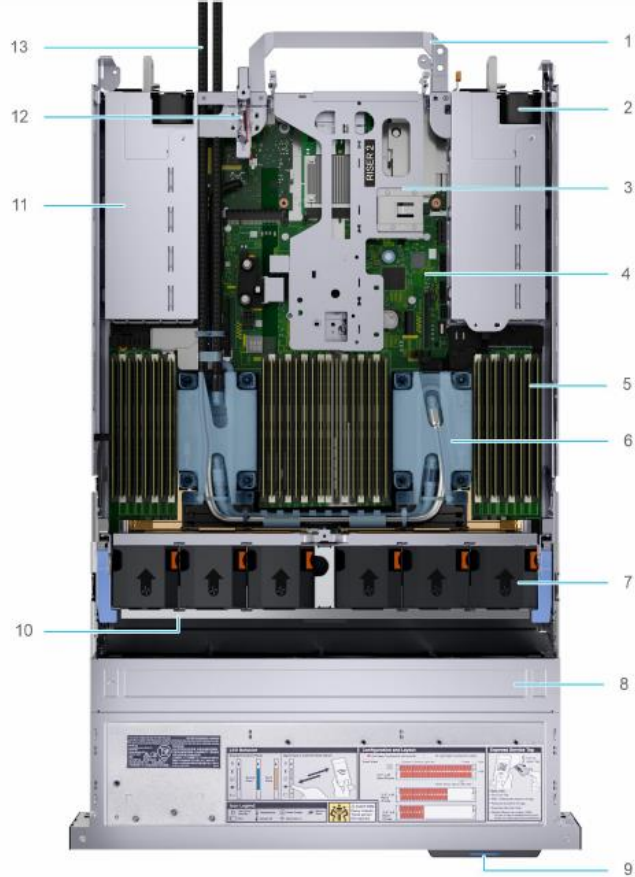
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 29. Removing the drive backplane cover Installation and Service Manual, 38.

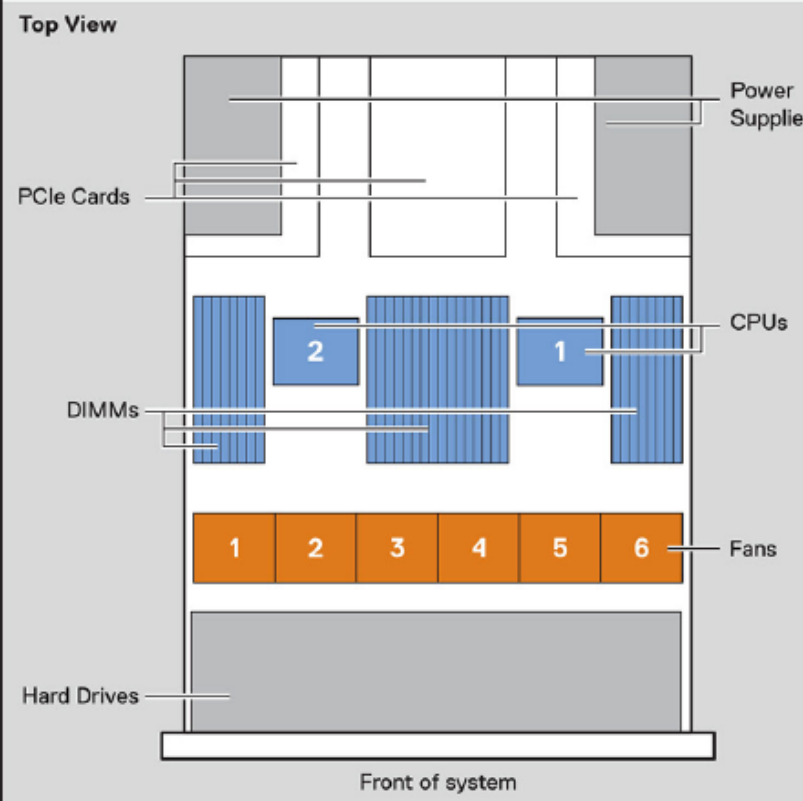
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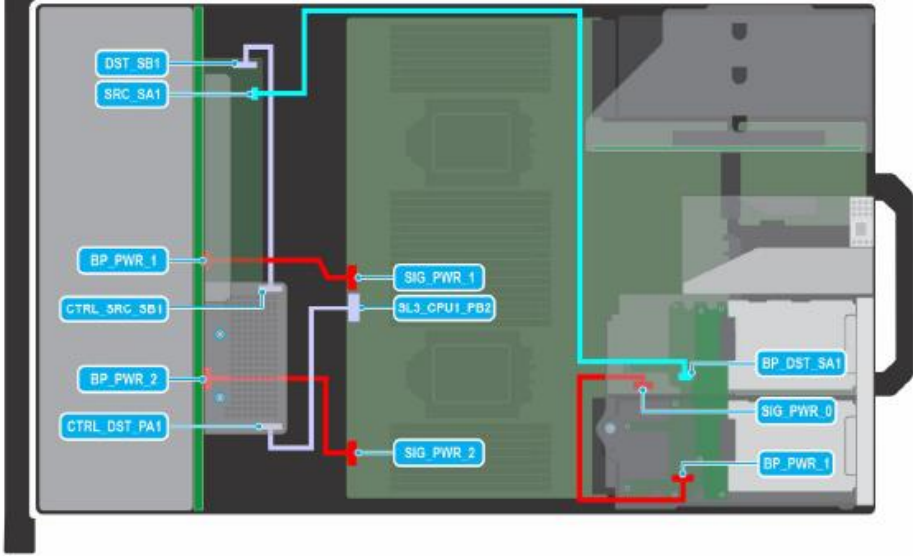
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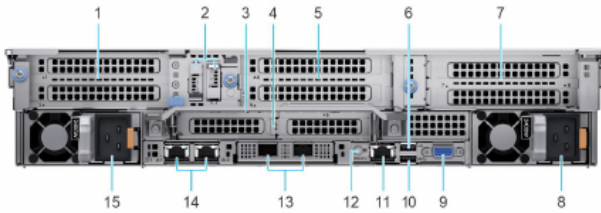
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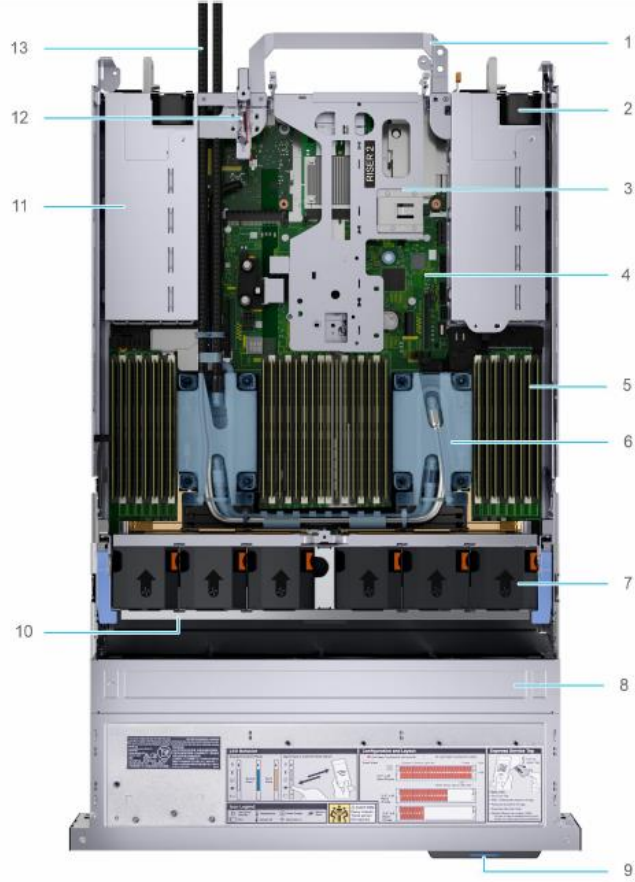
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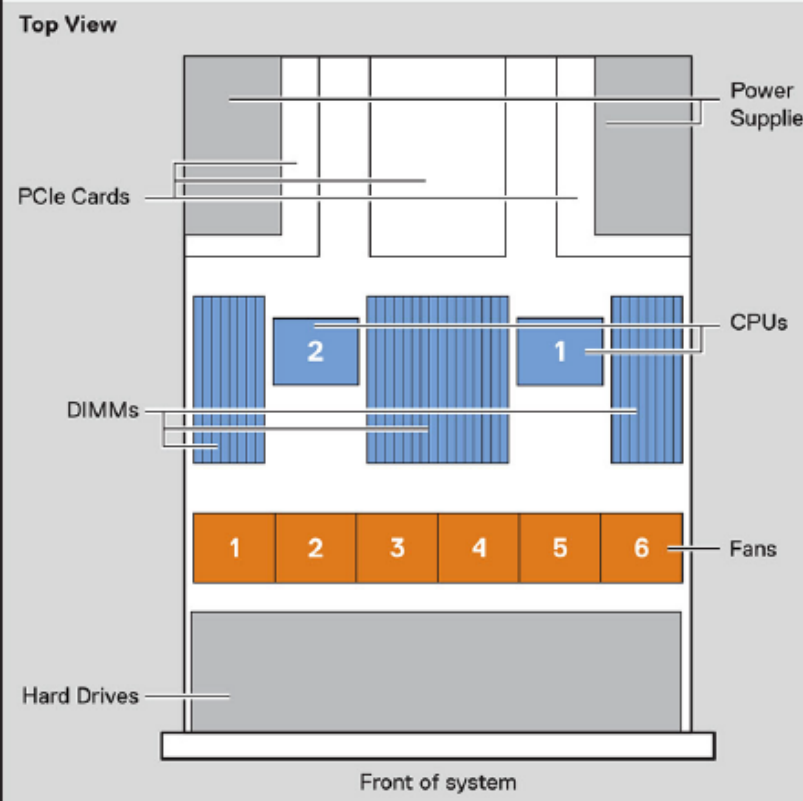
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 The image shows the internal components of a server chassis. A callout line points to a component on the motherboard, likely a riser card or a similar component. The chassis is open, revealing the internal components, including the motherboard, riser cards, and various connectors. The bottom of the chassis shows a panel with multiple drive bays and a label with technical specifications and diagrams. Installation and Service Manual, 200.

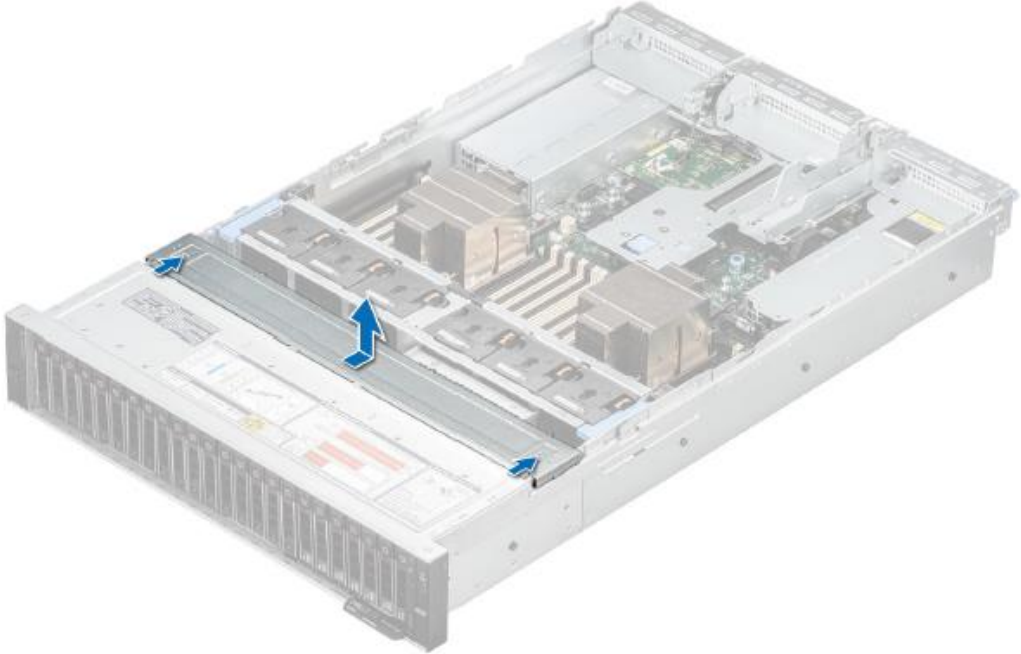
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	<i>See</i> 1[d].
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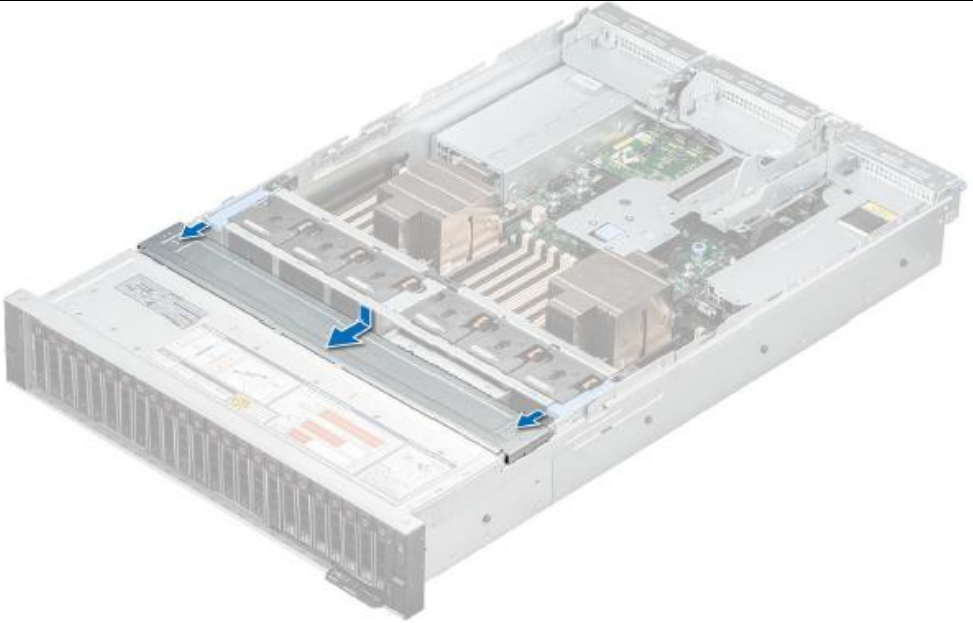
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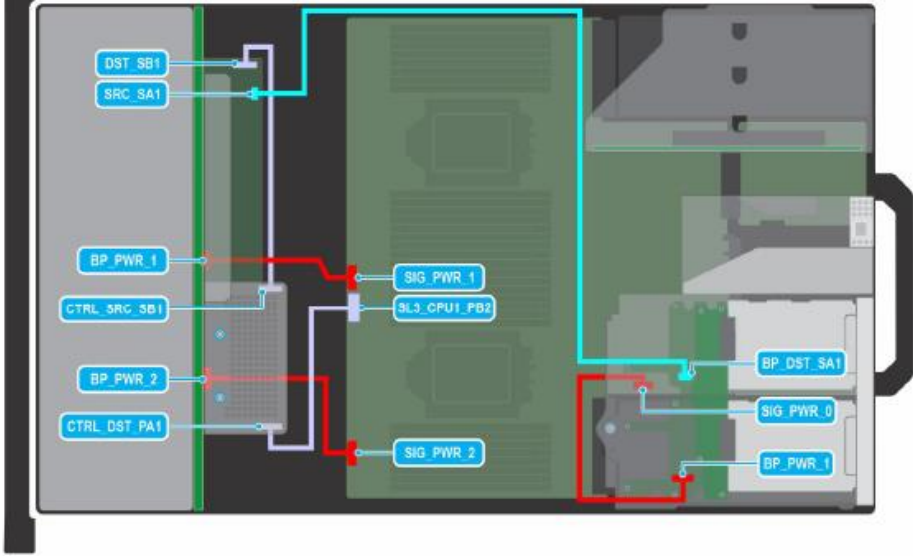
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5. Memory DIMM sockets	6. Liquid cooling module														
7. Cooling fan	8. Drive backplane														
9. Service tag	10. Cooling fan cage assembly														
11. Power supply unit (PSU 2)	12. Intrusion switch module														
13. Liquid cooling module tubes															

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 21.

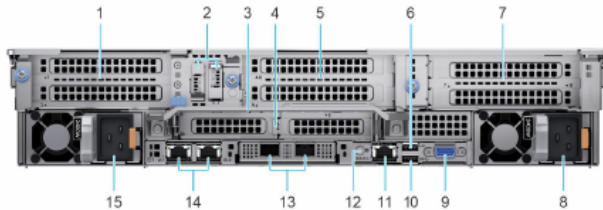
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 29. Removing the drive backplane cover Installation and Service Manual, 38.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 30. Installing the drive backplane cover Installation and Service Manual, 39.

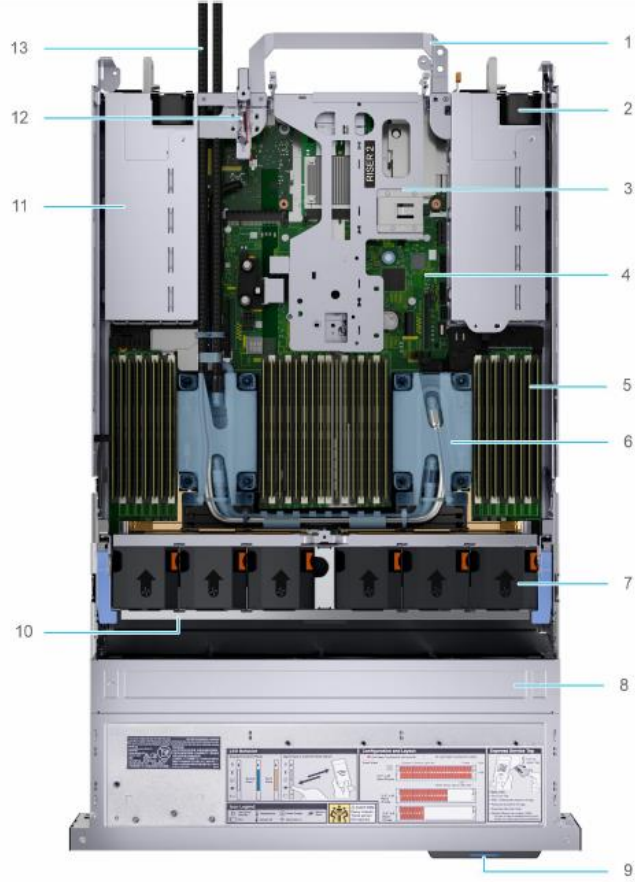
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 89. 24 x 2.5-inch SAS/SATA + 4 x 2.5-inch SAS with expander and fPERC Installation and Service Manual, 86.

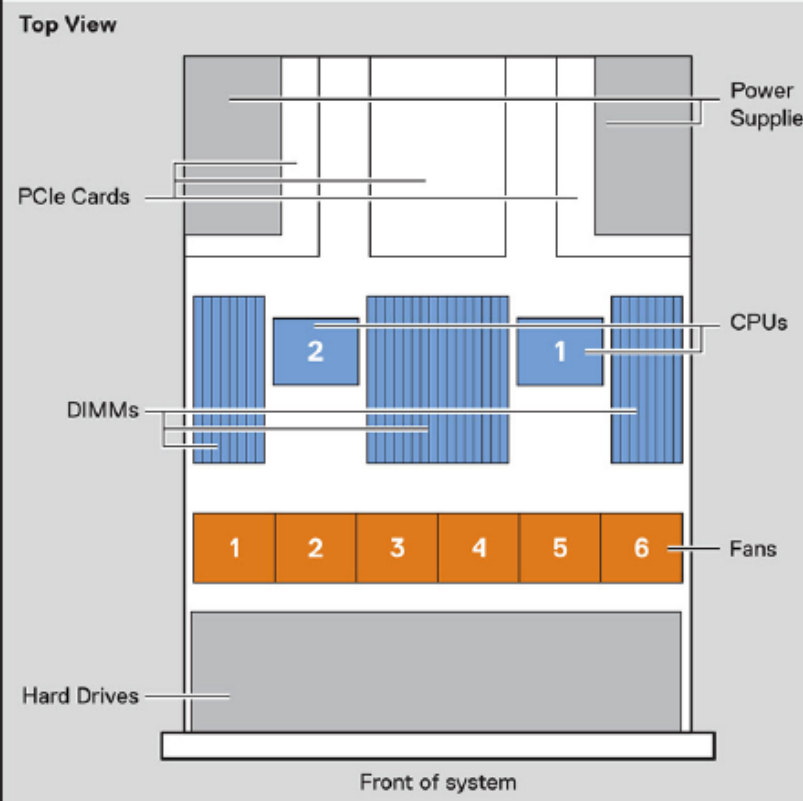
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 The image shows the internal components of a server chassis. A callout line points to a component on the motherboard. The text 'RISER 4' and 'RISER 2' are visible on the left side of the chassis. The bottom of the chassis features a panel with various labels and diagrams, including 'LED Indicator', 'Configuration and Label', and 'Express Service Tag'. Installation and Service Manual, 200.

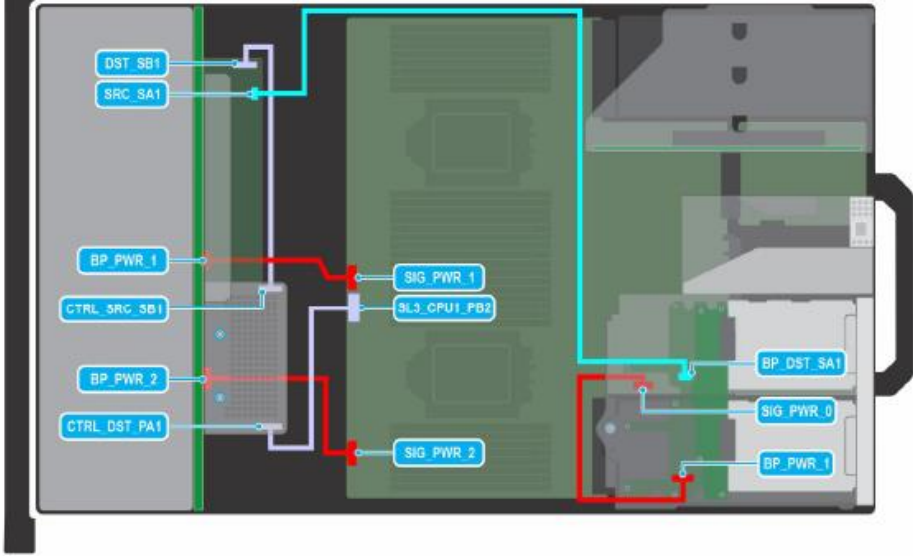
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	<i>See</i> 1[e].
[1g] wherein the plurality of power source units are each positioned not to be aligned linearly with the CPU in the longitudinal direction of the housing.	The power source units in the Accused Dell '265 Products are each positioned not to be aligned linearly with the CPU in the longitudinal direction of the housing. <i>See, e.g.,:</i>

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))																																				
	Rear view of the system  Figure 8. Rear view of the system Table 5. Rear view of the system <table><tr><th>Item</th><th>Ports, panels, or slots</th><th>Icon</th><th>Description</th></tr><tr><td>1</td><td>PCIe expansion card riser 1 (slot 1 and slot 2)</td><td>N/A</td><td>The expansion card riser enables you to connect PCI Express expansion cards. For more information about the expansion cards that are supported on your system, see the expansion card guidelines section.</td></tr><tr><td>2</td><td>BOSS S2 module (optional)</td><td>N/A</td><td>This slot supports the BOSS S2 module.</td></tr><tr><td>3</td><td>Rear handle</td><td>N/A</td><td>To lift the system.</td></tr><tr><td>4</td><td>PCIe expansion card riser 2 (slot 3 and slot 6)</td><td>N/A</td><td>The expansion card riser enables you to connect PCI Express expansion cards. For more information about the expansion cards supported on your system, see the expansion card guidelines section.</td></tr><tr><td>5</td><td>PCIe expansion card riser 3 (slot 4 and slot 5)</td><td>N/A</td><td>The expansion card riser enables you to connect PCI Express expansion cards. For more information about the expansion cards supported on your system, see the expansion card guidelines section.</td></tr><tr><td>6</td><td>USB 2.0 port (1)</td><td></td><td>This port is USB 2.0-compliant.</td></tr><tr><td>7</td><td>PCIe expansion card riser 4 (slot 7 and slot 8)</td><td>N/A</td><td>The expansion card riser enables you to connect PCI Express expansion cards. For more information about the expansion cards supported on your system, see the expansion card guidelines section.</td></tr><tr><td>8</td><td>Power supply unit (PSU 2)</td><td></td><td>For more information about the PSU configurations, see the <i>PowerEdge R750 Technical Specifications</i> on product documentation page.</td></tr></table>	Item	Ports, panels, or slots	Icon	Description	1	PCIe expansion card riser 1 (slot 1 and slot 2)	N/A	The expansion card riser enables you to connect PCI Express expansion cards. For more information about the expansion cards that are supported on your system, see the expansion card guidelines section.	2	BOSS S2 module (optional)	N/A	This slot supports the BOSS S2 module.	3	Rear handle	N/A	To lift the system.	4	PCIe expansion card riser 2 (slot 3 and slot 6)	N/A	The expansion card riser enables you to connect PCI Express expansion cards. For more information about the expansion cards supported on your system, see the expansion card guidelines section.	5	PCIe expansion card riser 3 (slot 4 and slot 5)	N/A	The expansion card riser enables you to connect PCI Express expansion cards. For more information about the expansion cards supported on your system, see the expansion card guidelines section.	6	USB 2.0 port (1)		This port is USB 2.0-compliant.	7	PCIe expansion card riser 4 (slot 7 and slot 8)	N/A	The expansion card riser enables you to connect PCI Express expansion cards. For more information about the expansion cards supported on your system, see the expansion card guidelines section.	8	Power supply unit (PSU 2)		For more information about the PSU configurations, see the <i>PowerEdge R750 Technical Specifications</i> on product documentation page.
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	Installation and Service Manual, 13.																																				

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))																						
	Table 5. Rear view of the system (continued) <table> <tr> <th>Item</th><th>Ports, panels, or slots</th><th>Icon</th><th>Description</th></tr> <tr> <td></td><td></td><td></td><td> If the system stops responding during POST, press and hold the system ID button (for more than 5 s) to enter the BIOS progress mode. </td></tr> <tr> <td>13</td><td>OCP NIC port (optional)</td><td>N/A</td><td>This port supports OCP 3.0. The NIC ports are integrated on the OCP card which is connected to the system board.</td></tr> <tr> <td>14</td><td>NIC port (1,2)</td><td></td><td>The NIC ports are embedded on the LOM card that is connected to the system board.</td></tr> <tr> <td>15</td><td>Power supply unit (PSU 1)</td><td></td><td>For more information about the PSU configurations, see the <i>Dell EMC PowerEdge R750 Technical Specifications</i> on product documentation page.</td></tr> </table> Installation and Service Manual, 14.			Item	Ports, panels, or slots	Icon	Description				If the system stops responding during POST, press and hold the system ID button (for more than 5 s) to enter the BIOS progress mode.	13	OCP NIC port (optional)	N/A	This port supports OCP 3.0. The NIC ports are integrated on the OCP card which is connected to the system board.	14	NIC port (1,2)		The NIC ports are embedded on the LOM card that is connected to the system board.	15	Power supply unit (PSU 1)		For more information about the PSU configurations, see the <i>Dell EMC PowerEdge R750 Technical Specifications</i> on product documentation page.
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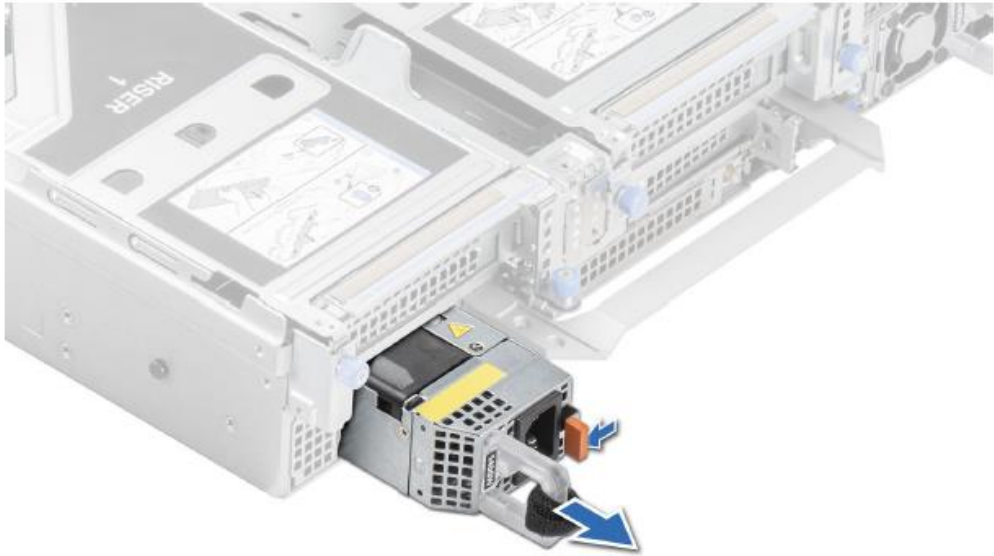
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))														
	 Figure 13. Inside the system with liquid cooling module <table border="0"> <tbody> <tr> <td>1. Handle</td><td>2. Power supply unit (PSU 1)</td></tr> <tr> <td>3. Riser 2</td><td>4. System board</td></tr> <tr> <td>5. Memory DIMM sockets</td><td>6. Liquid cooling module</td></tr> <tr> <td>7. Cooling fan</td><td>8. Drive backplane</td></tr> <tr> <td>9. Service tag</td><td>10. Cooling fan cage assembly</td></tr> <tr> <td>11. Power supply unit (PSU 2)</td><td>12. Intrusion switch module</td></tr> <tr> <td>13. Liquid cooling module tubes</td><td></td></tr> </tbody> </table> Installation and Service Manual, 19.	1. Handle	2. Power supply unit (PSU 1)	3. Riser 2	4. System board	5. Memory DIMM sockets	6. Liquid cooling module	7. Cooling fan	8. Drive backplane	9. Service tag	10. Cooling fan cage assembly	11. Power supply unit (PSU 2)	12. Intrusion switch module	13. Liquid cooling module tubes	
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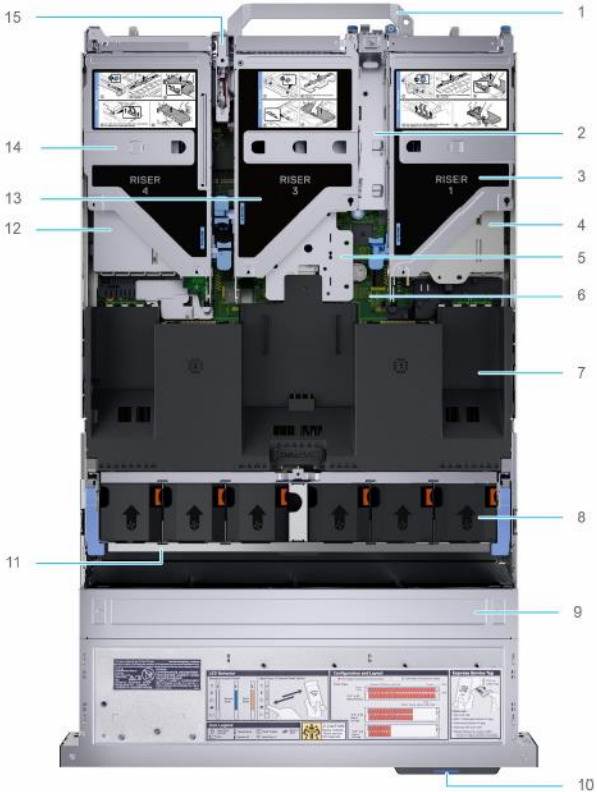
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 21.

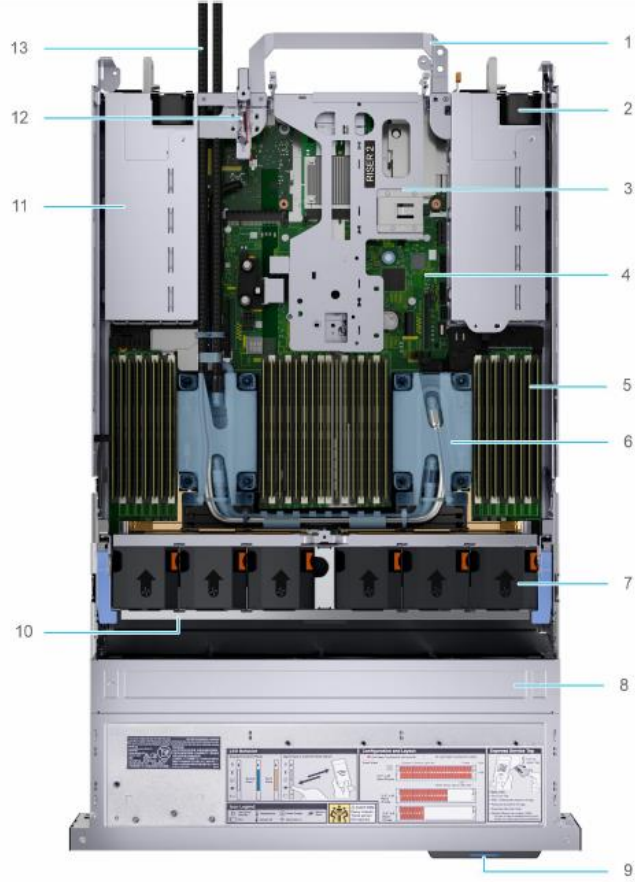
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 89. 24 x 2.5-inch SAS/SATA + 4 x 2.5-inch SAS with expander and fPERC Installation and Service Manual, 86.

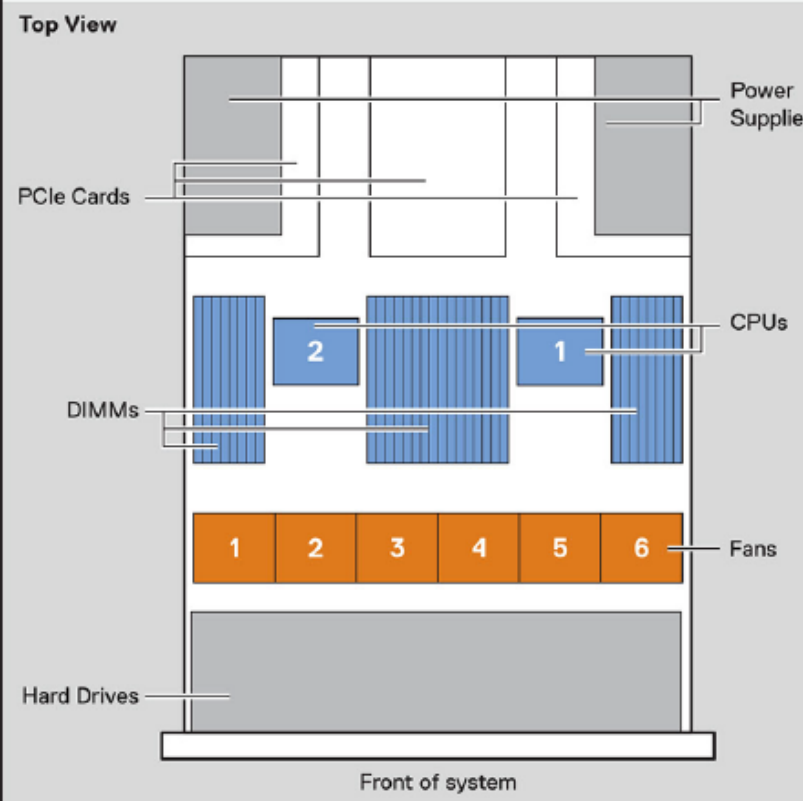
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 The image shows the internal components of a server chassis. Two riser cards are visible, labeled 'RISER 1' and 'RISER 2'. A callout line points to a component on the motherboard. At the bottom of the chassis, there is a label with technical specifications and diagrams. Installation and Service Manual, 200.

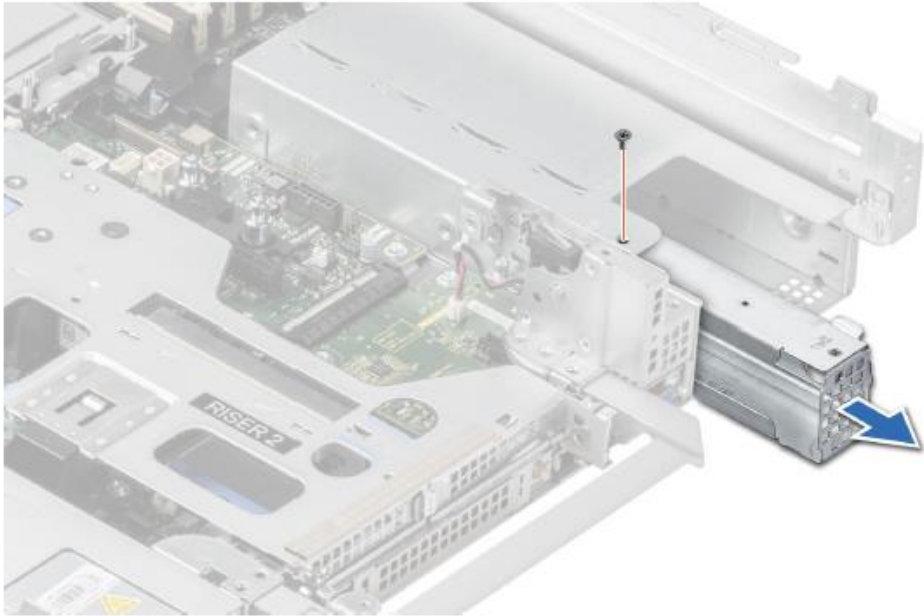
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	See 1[f].
[2] The electronic device according to claim 1, wherein the plurality of power source units are each arranged to be pulled out from the rear face of the housing.	The plurality of power source units in the Accused Dell '265 Products are each arranged to be pulled out from the rear face of the housing. See, e.g.,: Removing a power supply unit Prerequisites  CAUTION: The system requires one power supply unit (PSU) for normal operation. On power-redundant systems, remove and replace only one PSU at a time in a system that is powered on. 1. Follow the safety guidelines listed in the Safety instructions. 2. Disconnect the power cable from the power outlet and from the PSU you intend to remove. 3. Remove the cable from the strap on the PSU handle. 4. Unlatch and lift or remove the optional cable management accessory if it interferes with the PSU removal.  NOTE: For information about the cable management when the PSU is removed or installed while the system is in a rack, see the system's cable management arm documentation at poweredge manuals. Steps Press the release latch and holding the PSU handle, slide the PSU out of the bay. Installation and Service Manual, 210.

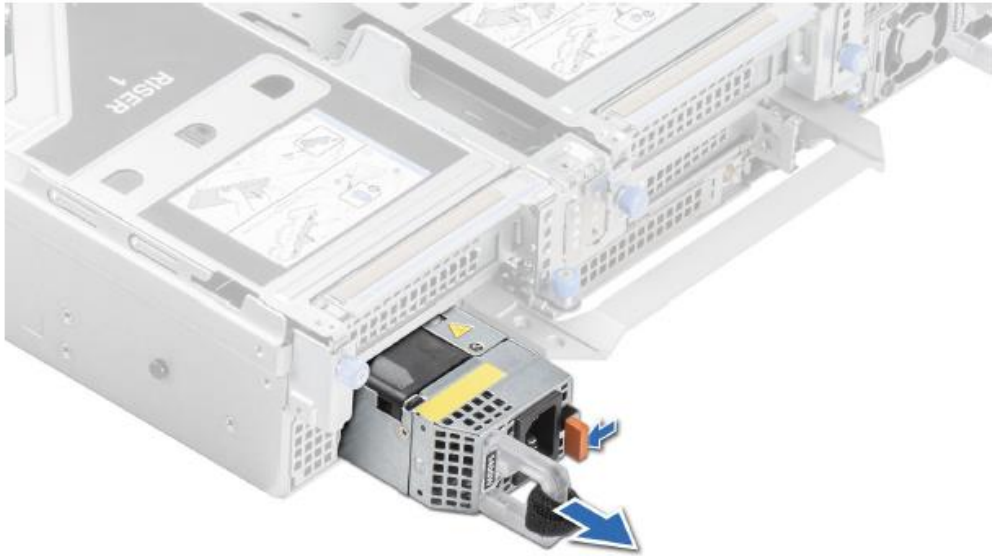
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 212. Removing a power supply unit Installation and Service Manual, 211. See claim 1.
[3] The electronic device according to claim 1, wherein the plurality of power source units are each kept inside a power box, comprising a top board and a pair of side boards, and positioned close to each of side faces of the housing so	The plurality of power source units in the Accused Dell '265 Products are each kept inside a power box, comprising a top board and a pair of side boards, and positioned close to each of side faces of the housing so as not to directly interfere with the cooling air flown downwardly from the plurality of electronic parts. See, e.g.,:

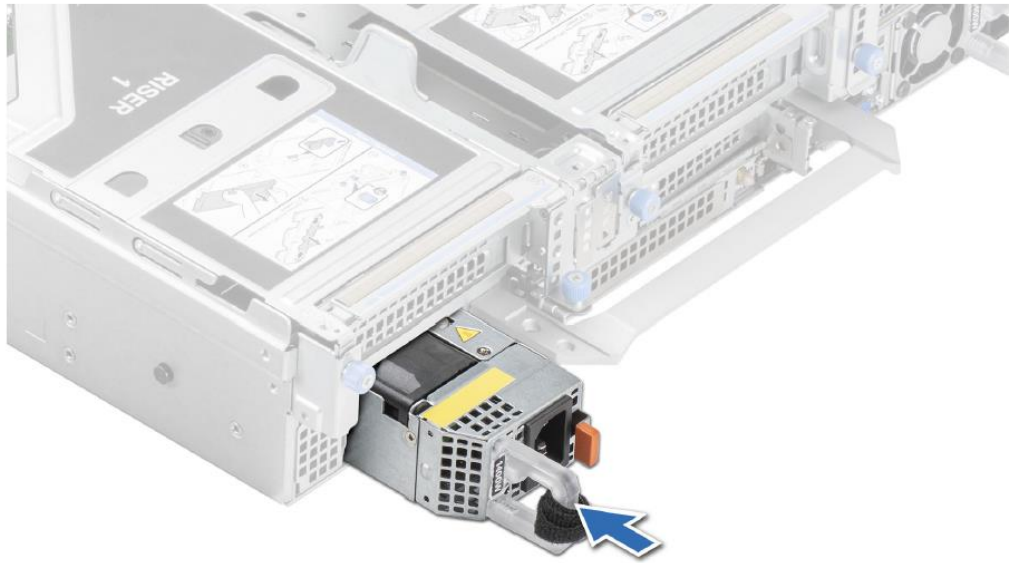
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as not to directly interfere with the cooling air flown downwardly from the plurality of electronic parts.	Inside the system  Figure 11. Inside the system <table border="0"> <tbody> <tr> <td>1. Handle</td><td>2. BOSS S2 module bay</td></tr> <tr> <td>3. Riser 1</td><td>4. Power supply unit (PSU 1)</td></tr> <tr> <td>5. Riser 2 cage</td><td>6. System board</td></tr> <tr> <td>7. Air shroud</td><td>8. Cooling fan</td></tr> <tr> <td>9. Drive backplane cover</td><td>10. Service tag</td></tr> <tr> <td>11. Cooling fan cage assembly</td><td>12. Power supply unit (PSU 2)</td></tr> <tr> <td>13. Riser 3</td><td>14. Riser 4</td></tr> <tr> <td>15. Intrusion switch module</td><td></td></tr> </tbody> </table> Installation and Service Manual, 17.	1. Handle	2. BOSS S2 module bay	3. Riser 1	4. Power supply unit (PSU 1)	5. Riser 2 cage	6. System board	7. Air shroud	8. Cooling fan	9. Drive backplane cover	10. Service tag	11. Cooling fan cage assembly	12. Power supply unit (PSU 2)	13. Riser 3	14. Riser 4	15. Intrusion switch module	
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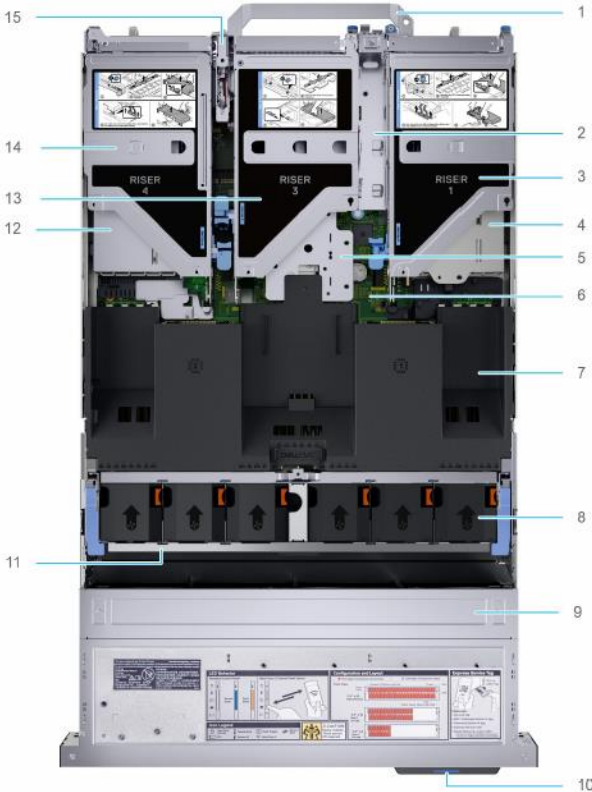
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	 Figure 13. Inside the system with liquid cooling module <table border="0"> <tbody> <tr> <td>1. Handle</td><td>2. Power supply unit (PSU 1)</td></tr> <tr> <td>3. Riser 2</td><td>4. System board</td></tr> <tr> <td>5. Memory DIMM sockets</td><td>6. Liquid cooling module</td></tr> <tr> <td>7. Cooling fan</td><td>8. Drive backplane</td></tr> <tr> <td>9. Service tag</td><td>10. Cooling fan cage assembly</td></tr> <tr> <td>11. Power supply unit (PSU 2)</td><td>12. Intrusion switch module</td></tr> <tr> <td>13. Liquid cooling module tubes</td><td></td></tr> </tbody> </table> Installation and Service Manual, 19.	1. Handle	2. Power supply unit (PSU 1)	3. Riser 2	4. System board	5. Memory DIMM sockets	6. Liquid cooling module	7. Cooling fan	8. Drive backplane	9. Service tag	10. Cooling fan cage assembly	11. Power supply unit (PSU 2)	12. Intrusion switch module	13. Liquid cooling module tubes	
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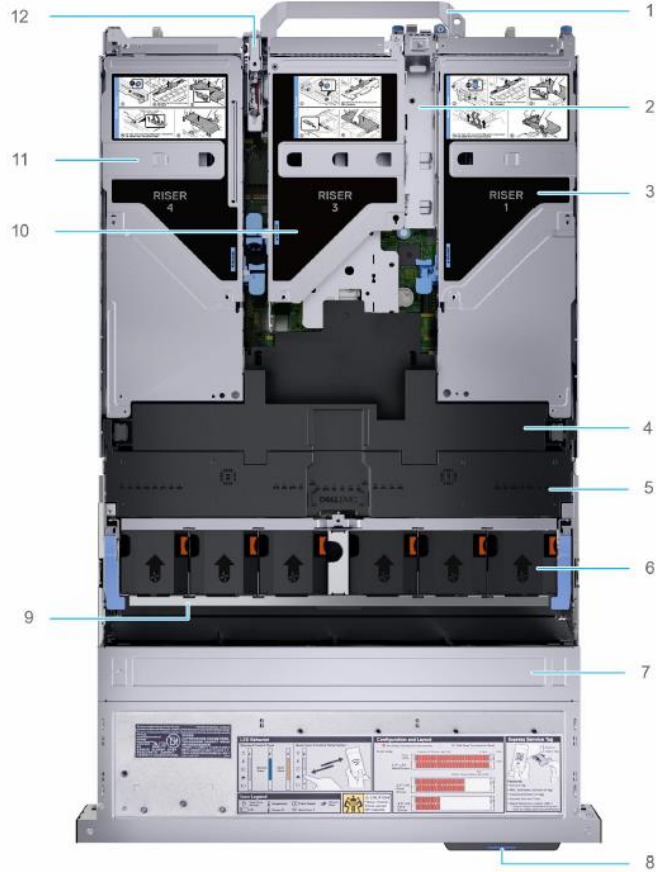
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 21.

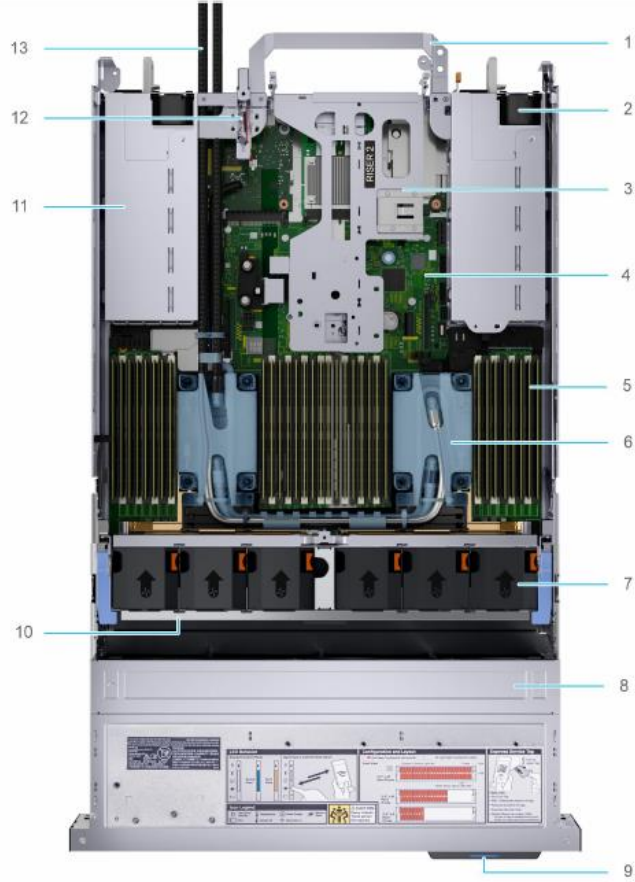
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 210. Removing a power supply unit adapter Installation and Service Manual, 209.

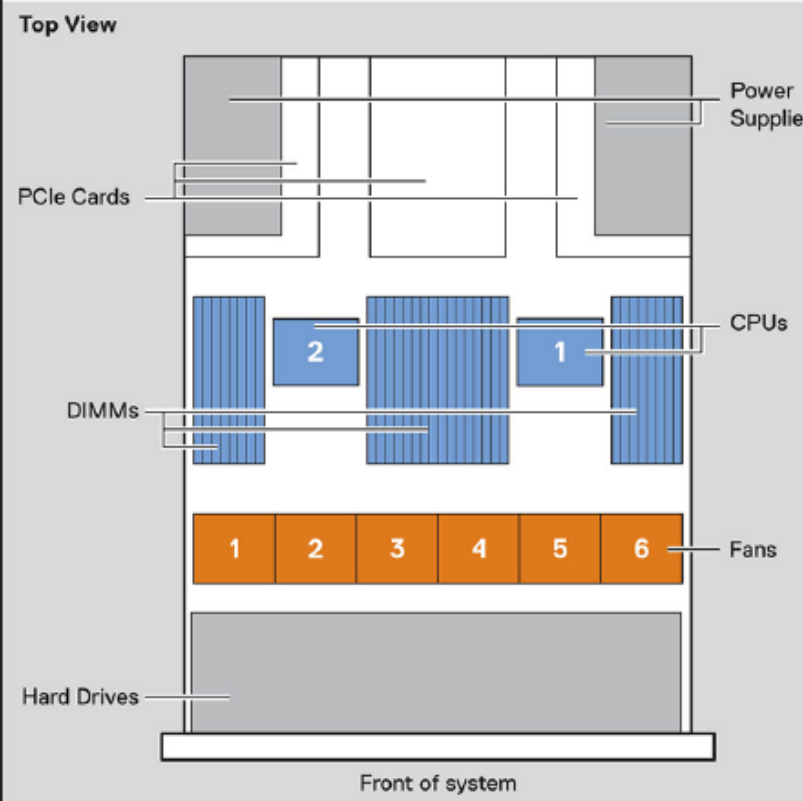
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 212. Removing a power supply unit Installation and Service Manual, 211.

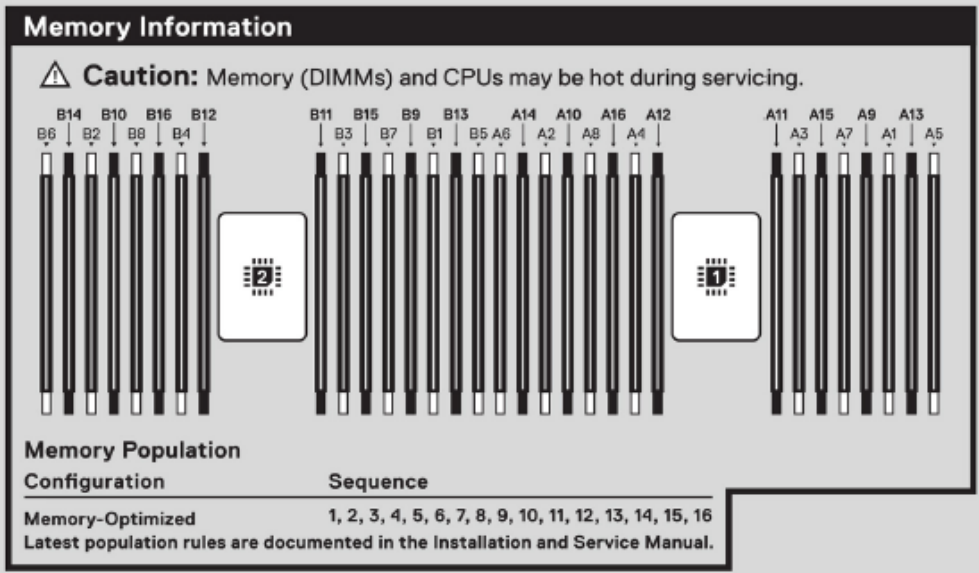
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 213. Installing a power supply unit Installation and Service Manual, 212. See claim 1.
[4pre] A cooling structure of an electronic device comprising a plurality of fans causing cooling air to flow downstream, a central processing unit (CPU), a plurality of memory devices adjacent to the CPU, and a plurality of power source units, all of which are arranged along a flowing	The Accused Dell '265 Products include a cooling structure comprising a plurality of fans causing cooling air to flow downstream, a central processing unit (CPU), a plurality of memory devices adjacent to the CPU, and a plurality of power source units, all of which are arranged along a flowing direction of the cooling air corresponding to a longitudinal direction in a housing. <i>See, e.g.,:</i>

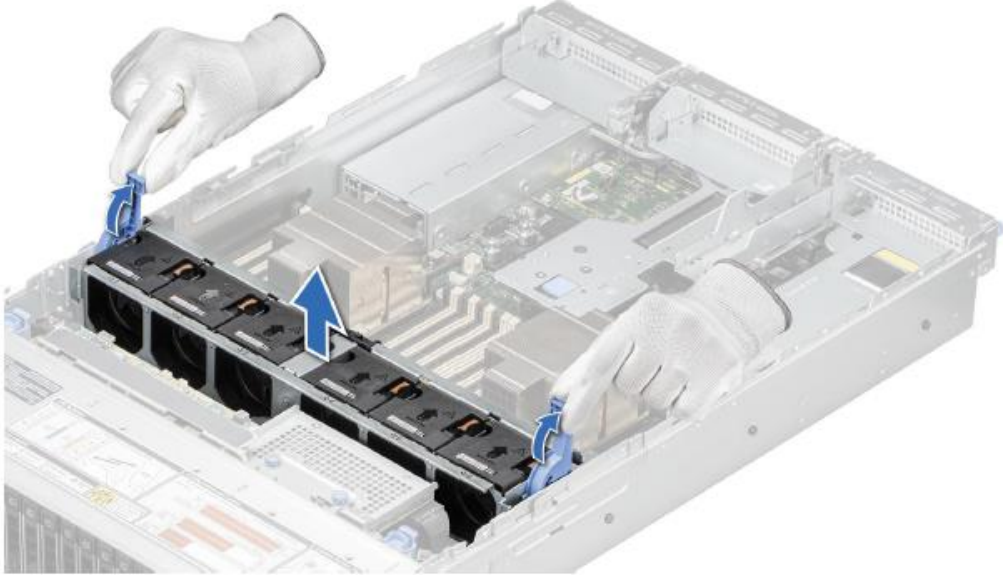
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direction of the cooling air corresponding to a longitudinal direction in a housing,	Inside the system  Figure 11. Inside the system <table border="0"> <tbody> <tr> <td>1. Handle</td><td>2. BOSS S2 module bay</td></tr> <tr> <td>3. Riser 1</td><td>4. Power supply unit (PSU 1)</td></tr> <tr> <td>5. Riser 2 cage</td><td>6. System board</td></tr> <tr> <td>7. Air shroud</td><td>8. Cooling fan</td></tr> <tr> <td>9. Drive backplane cover</td><td>10. Service tag</td></tr> <tr> <td>11. Cooling fan cage assembly</td><td>12. Power supply unit (PSU 2)</td></tr> <tr> <td>13. Riser 3</td><td>14. Riser 4</td></tr> <tr> <td>15. Intrusion switch module</td><td></td></tr> </tbody> </table> Installation and Service Manual, 17.	1. Handle	2. BOSS S2 module bay	3. Riser 1	4. Power supply unit (PSU 1)	5. Riser 2 cage	6. System board	7. Air shroud	8. Cooling fan	9. Drive backplane cover	10. Service tag	11. Cooling fan cage assembly	12. Power supply unit (PSU 2)	13. Riser 3	14. Riser 4	15. Intrusion switch module	
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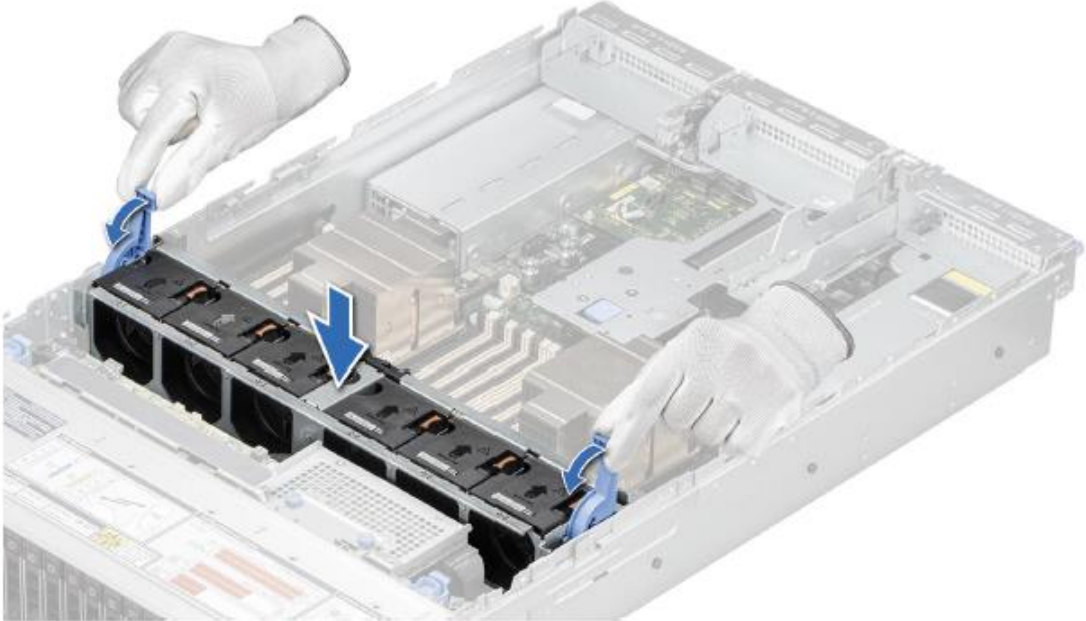
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
	 Figure 12. Inside the system with full length risers and GPU shroud <table border="0"> <tbody> <tr> <td>1. Handle</td><td>2. BOSS S2 module bay</td></tr> <tr> <td>3. Riser 1</td><td>4. GPU air shroud top cover</td></tr> <tr> <td>5. GPU air shroud</td><td>6. Cooling fan</td></tr> <tr> <td>7. Drive backplane</td><td>8. Service tag</td></tr> <tr> <td>9. Cooling fan cage assembly</td><td>10. Riser 3</td></tr> <tr> <td>11. Riser 4</td><td>12. Intrusion switch module</td></tr> </tbody> </table> Installation and Service Manual, 18.	1. Handle	2. BOSS S2 module bay	3. Riser 1	4. GPU air shroud top cover	5. GPU air shroud	6. Cooling fan	7. Drive backplane	8. Service tag	9. Cooling fan cage assembly	10. Riser 3	11. Riser 4	12. Intrusion switch module
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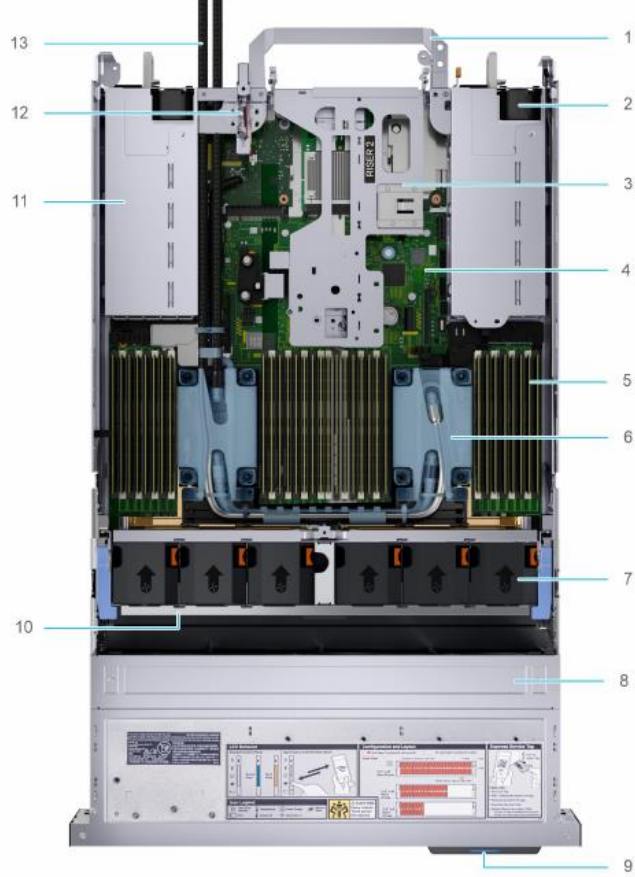
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	 Figure 13. Inside the system with liquid cooling module <table border="0"> <tbody> <tr> <td>1. Handle</td><td>2. Power supply unit (PSU 1)</td></tr> <tr> <td>3. Riser 2</td><td>4. System board</td></tr> <tr> <td>5. Memory DIMM sockets</td><td>6. Liquid cooling module</td></tr> <tr> <td>7. Cooling fan</td><td>8. Drive backplane</td></tr> <tr> <td>9. Service tag</td><td>10. Cooling fan cage assembly</td></tr> <tr> <td>11. Power supply unit (PSU 2)</td><td>12. Intrusion switch module</td></tr> <tr> <td>13. Liquid cooling module tubes</td><td></td></tr> </tbody> </table> Installation and Service Manual, 19.	1. Handle	2. Power supply unit (PSU 1)	3. Riser 2	4. System board	5. Memory DIMM sockets	6. Liquid cooling module	7. Cooling fan	8. Drive backplane	9. Service tag	10. Cooling fan cage assembly	11. Power supply unit (PSU 2)	12. Intrusion switch module	13. Liquid cooling module tubes	
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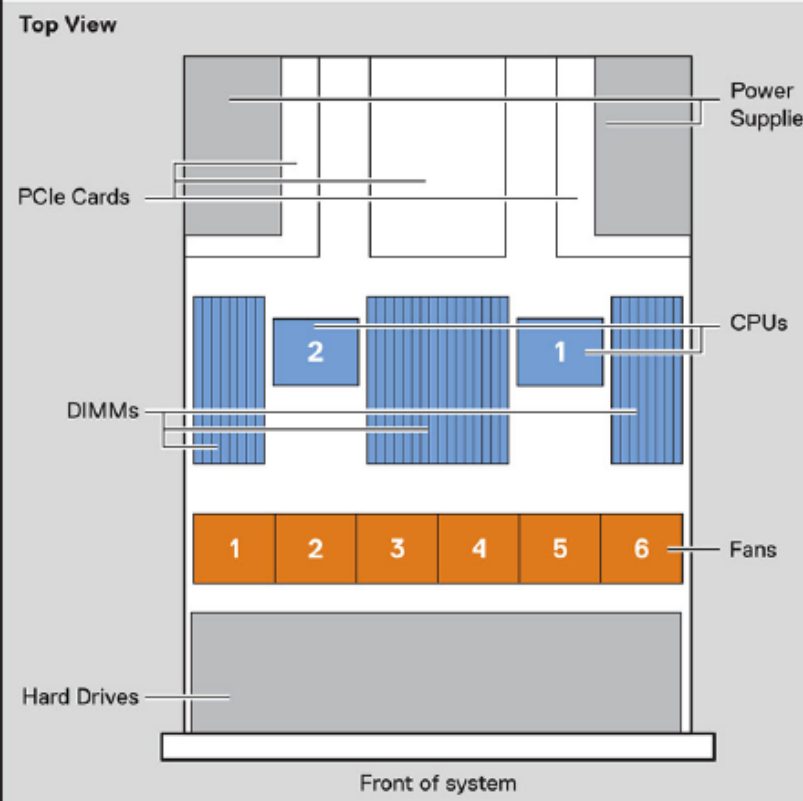
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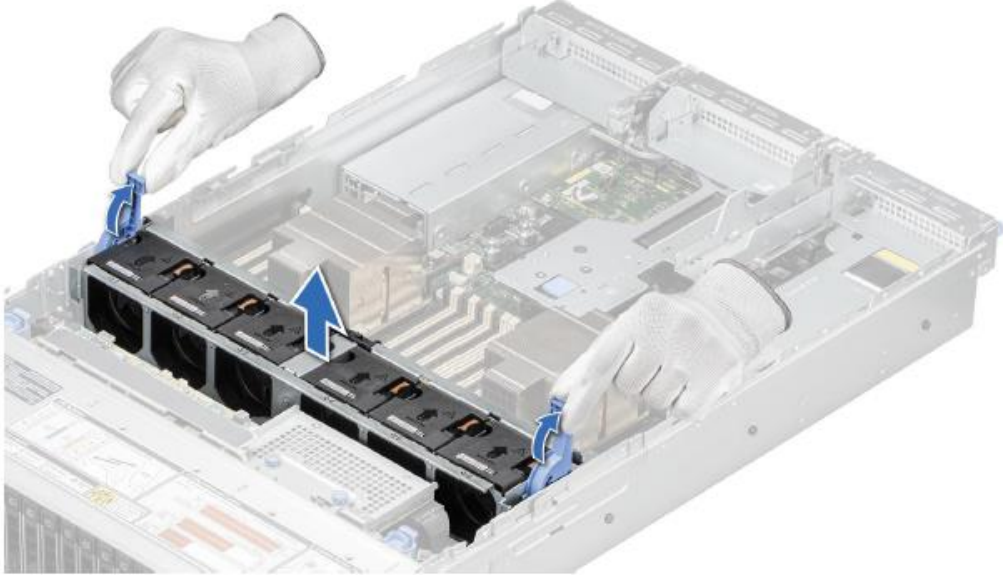
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	 Memory Population Configuration <table border="1"> <thead> <tr> <th>Configuration</th> <th>Sequence</th> </tr> </thead> <tbody> <tr> <td>Memory-Optimized</td> <td>1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16</td> </tr> </tbody> </table> Latest population rules are documented in the Installation and Service Manual. Figure 16. Memory information and system board connectors Installation and Service Manual, 21.	Configuration	Sequence	Memory-Optimized	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
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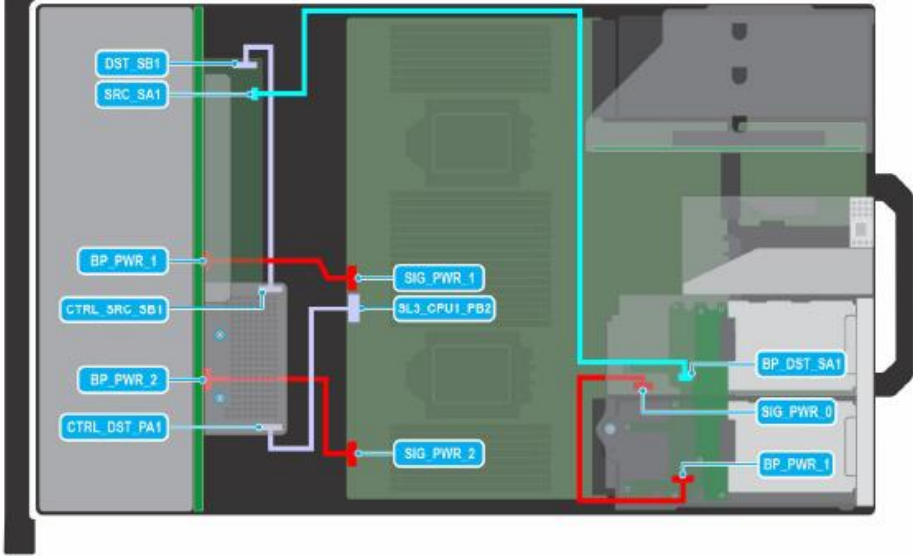
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	 Figure 41. Removing the cooling fan cage assembly Installation and Service Manual, 49.

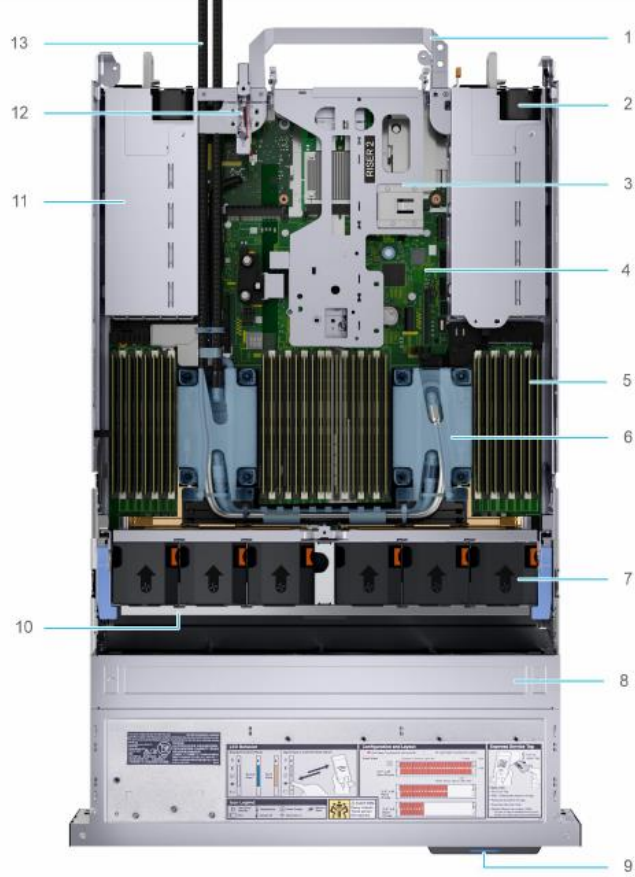
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 42. Installing the cooling fan cage assembly Installation and Service Manual, 50.
[4a] wherein the CPU is arranged downstream of the plurality of fans and positioned to allow the cooling air to directly flow therethrough,	The CPU in the Accused Dell '265 Products is arranged downstream of the plurality of fans and positioned to allow the cooling air to directly flow therethrough. <i>See, e.g.,:</i>

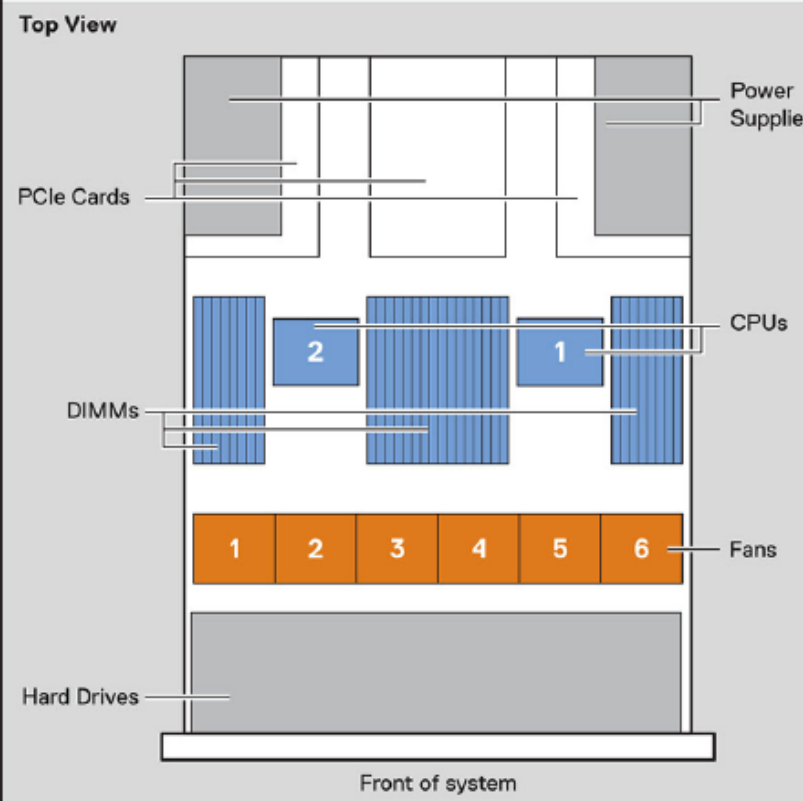
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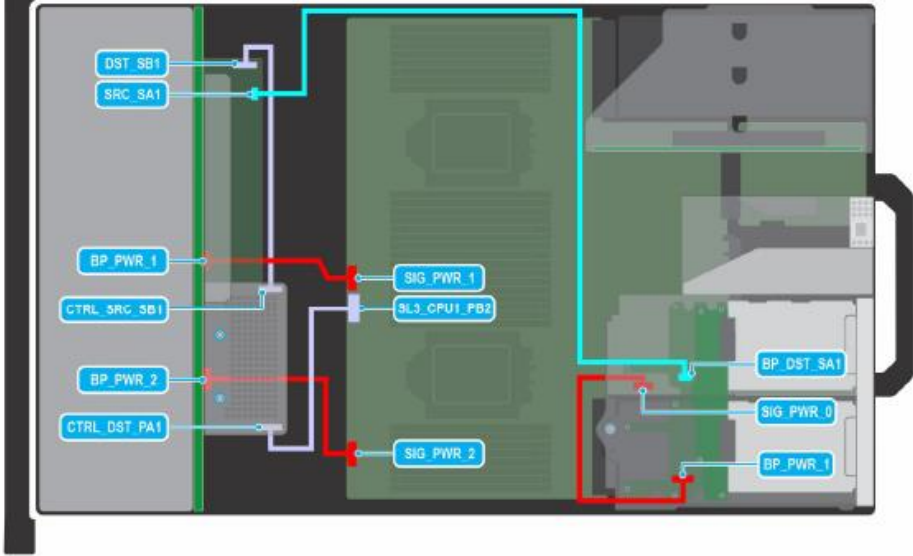
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  The diagram is a top-down view of a server chassis. At the top, there are two large grey rectangular areas labeled 'Power Supply'. Below these, on the left, are two horizontal grey rectangles labeled 'PCIe Cards'. In the center, there are two blue rectangular areas labeled 'CPUs', with '2' on the left and '1' on the right. Below the CPUs are two vertical blue rectangles labeled 'DIMMs'. At the bottom of the main component area are six orange rectangular areas labeled 'Fans', numbered 1 through 6 from left to right. At the very bottom is a large grey rectangular area labeled 'Hard Drives'. A white horizontal bar at the bottom edge is labeled 'Front of system'. Installation and Service Manual, 21.

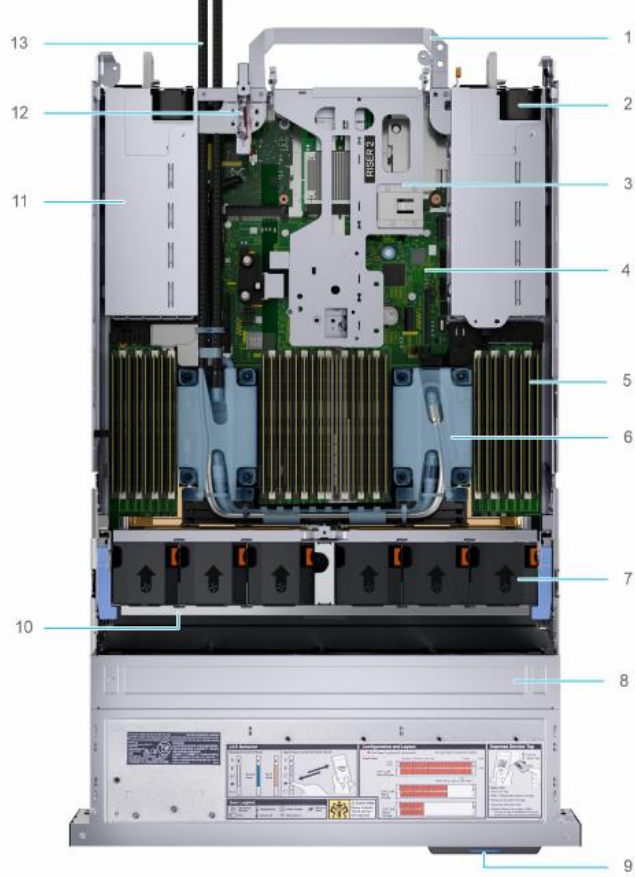
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 41. Removing the cooling fan cage assembly Installation and Service Manual, 49.

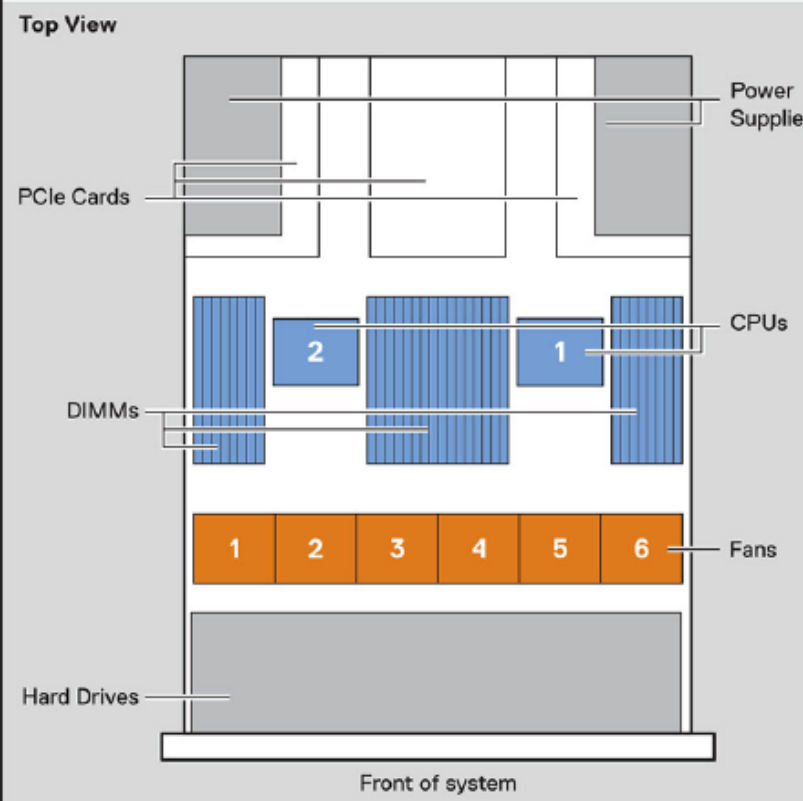
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 89. 24 x 2.5-inch SAS/SATA + 4 x 2.5-inch SAS with expander and fPERC Installation and Service Manual, 86. See 4[pre].
[4b] wherein the plurality of power source units are each positioned further downstream of the cooling air from the plurality of memory devices such that the cooling air passing through one of the memory devices passes into one of the power source units,	The plurality of power source units in the Accused Dell '265 Products are each positioned further downstream of the cooling air from the plurality of memory devices such that the cooling air passing through one of the memory devices passes into one of the power source units. See, e.g.,:

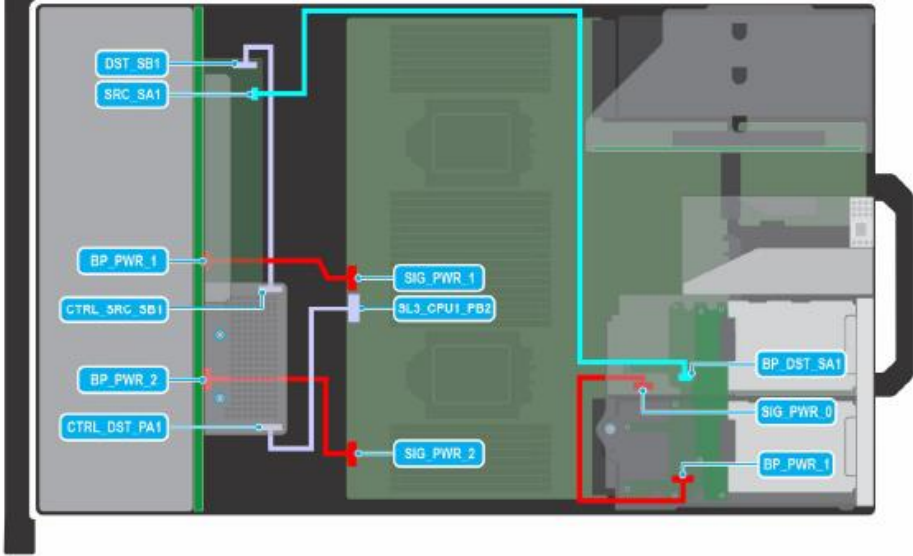
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 89. 24 x 2.5-inch SAS/SATA + 4 x 2.5-inch SAS with expander and fPERC Installation and Service Manual, 86. See 4[a].
[4c] wherein the plurality of power source units are positioned opposite to each other and spaced out from each other in a width direction of the housing such that the plurality of power source units are positioned not to be aligned	The plurality of power source units in the Accused Dell '265 Products are positioned opposite to each other and spaced out from each other in a width direction of the housing such that the plurality of power source units are positioned not to be aligned linearly with the CPU in the longitudinal direction. See, e.g.,:

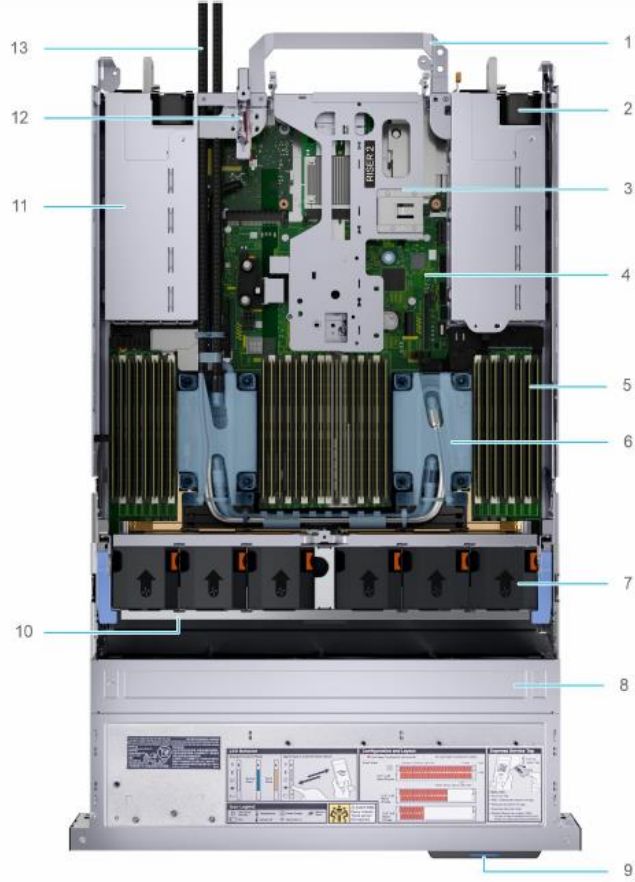
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))														
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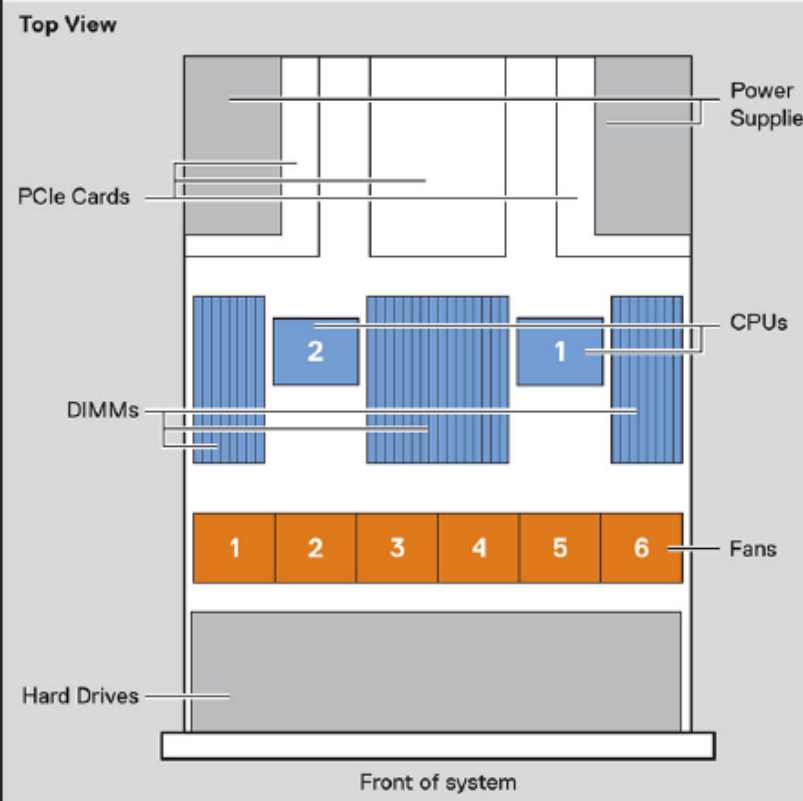
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 21.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 89. 24 x 2.5-inch SAS/SATA + 4 x 2.5-inch SAS with expander and fPERC Installation and Service Manual, 86.

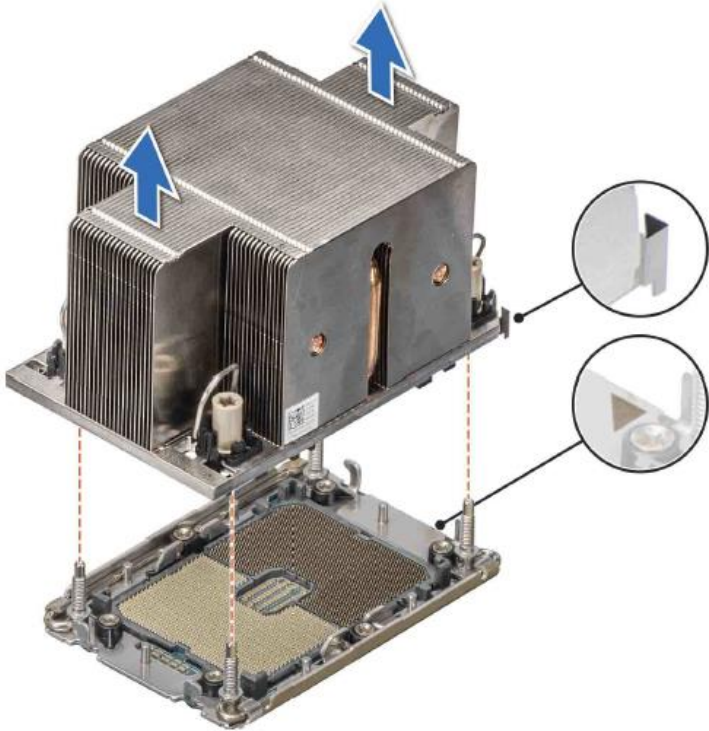
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 200.

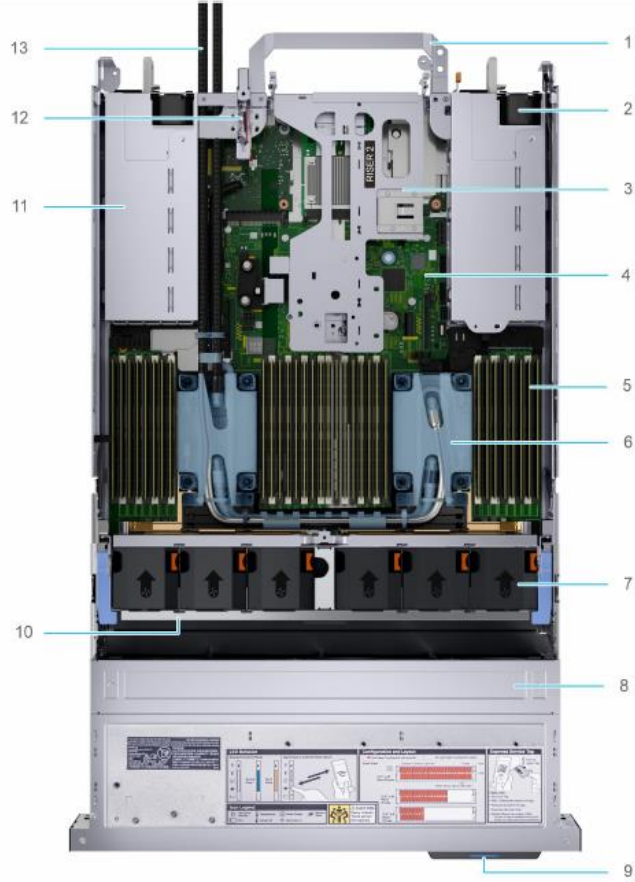
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	<i>See</i> 4[b].
[5] The electronic device according to claim 1, wherein the plurality of power source units are each positioned along an extension downstream from the plurality of memory devices.	The plurality of power source units in the Accused Dell '265 Products are each positioned along an extension downstream from the plurality of memory devices. <i>See, e.g.,:</i>

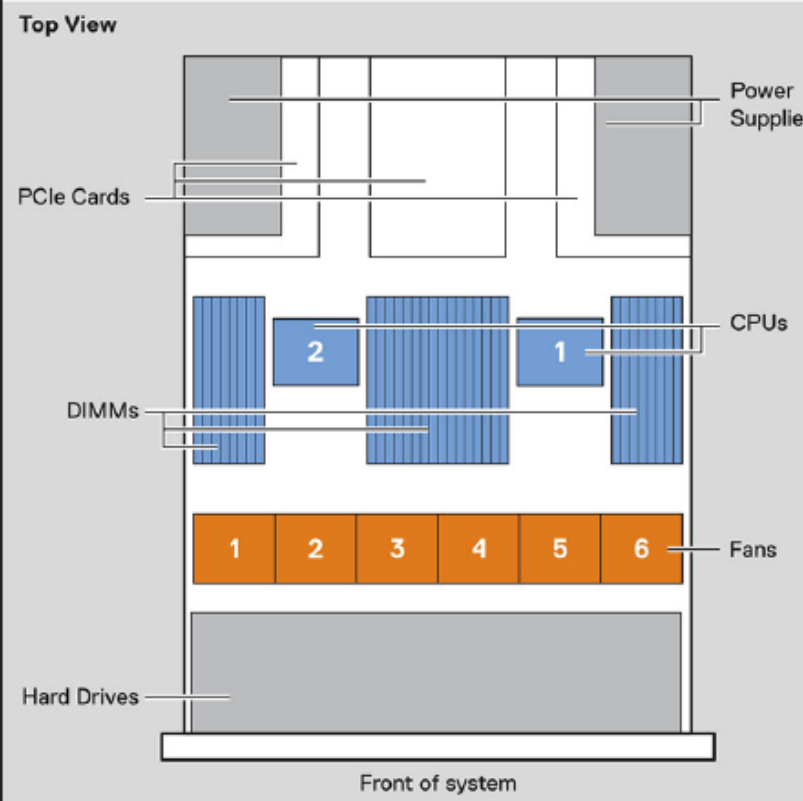
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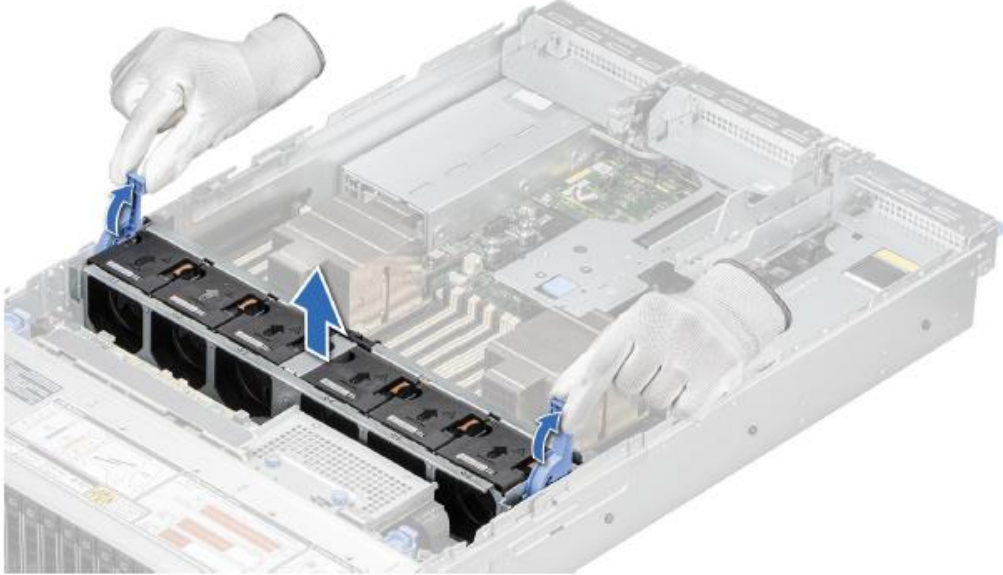
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview  Installation and Service Manual, 21. See claim 1.
[6] The electronic device according to claim 1, wherein the cooling air flows through a heat sink, attached onto the CPU, and	The cooling air in the Accused Dell '265 Products flows through a heat sink, attached onto the CPU, and further flows downstream via a relatively large space formed between the plurality of power source units. See, e.g.,:

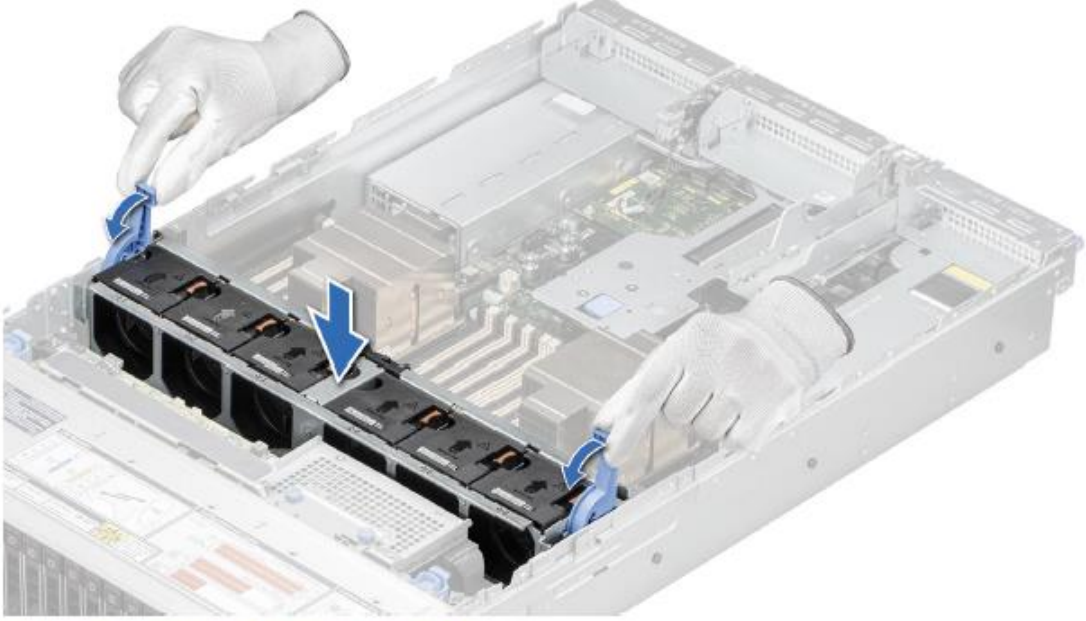
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
further flows downstream via a relatively large space formed between the plurality of power source units.	Figure 106. Removing the processor heat sink module 3. Lift the PHM from the system and set the PHM aside with the processor side facing up. Installation and Service Manual, 109.

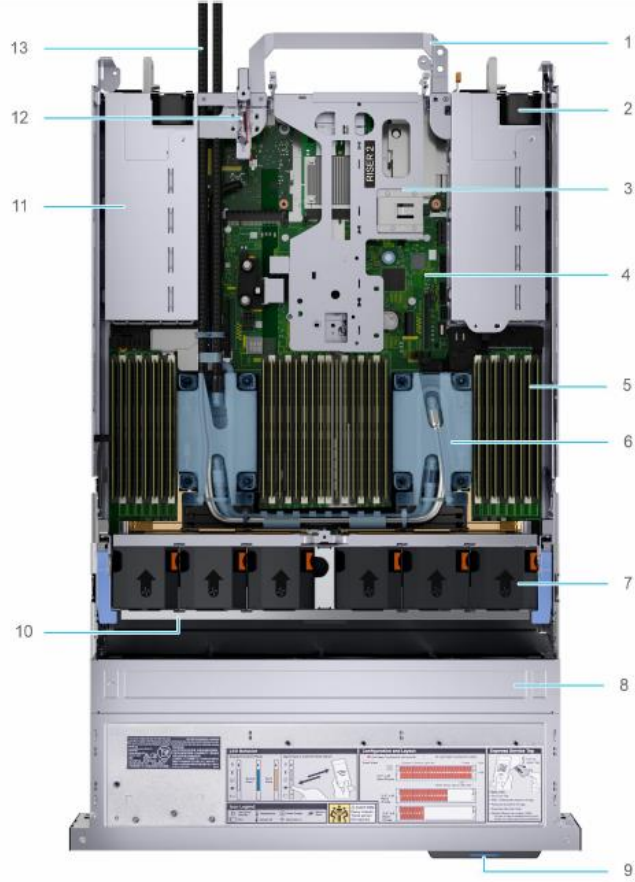
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 107. Removing a heat sink Installation and Service Manual, 110.

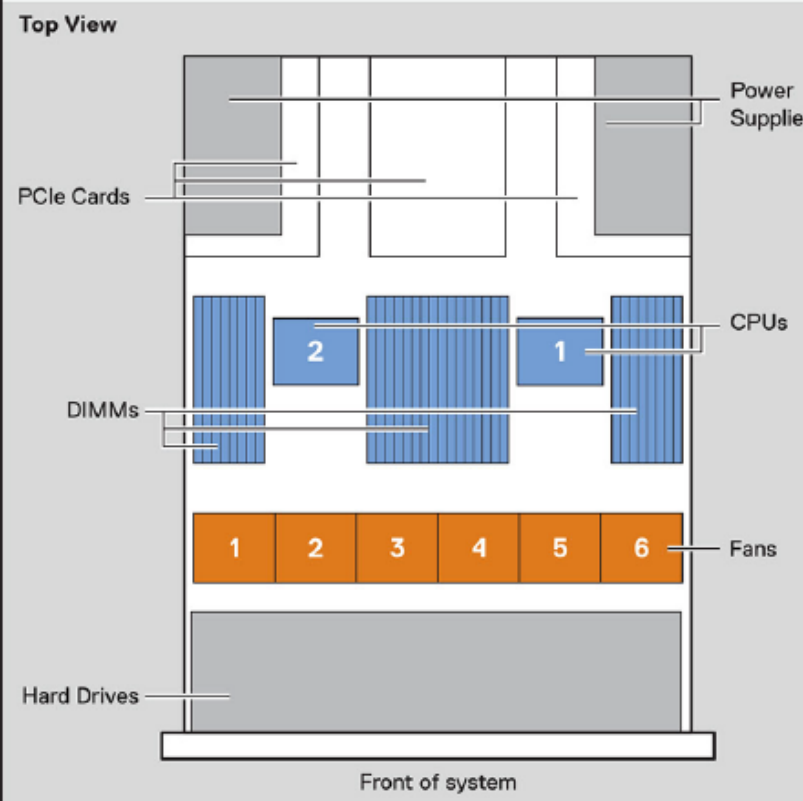
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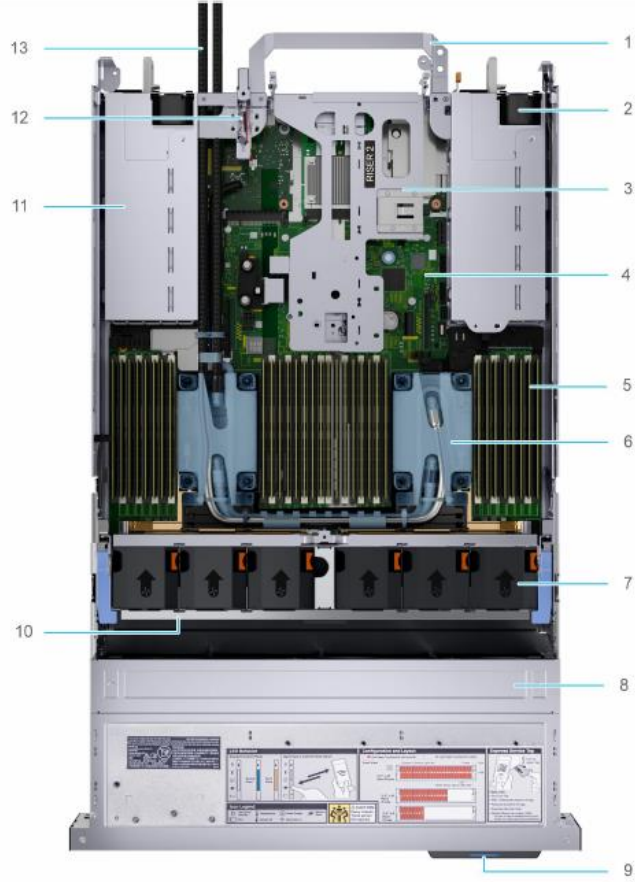
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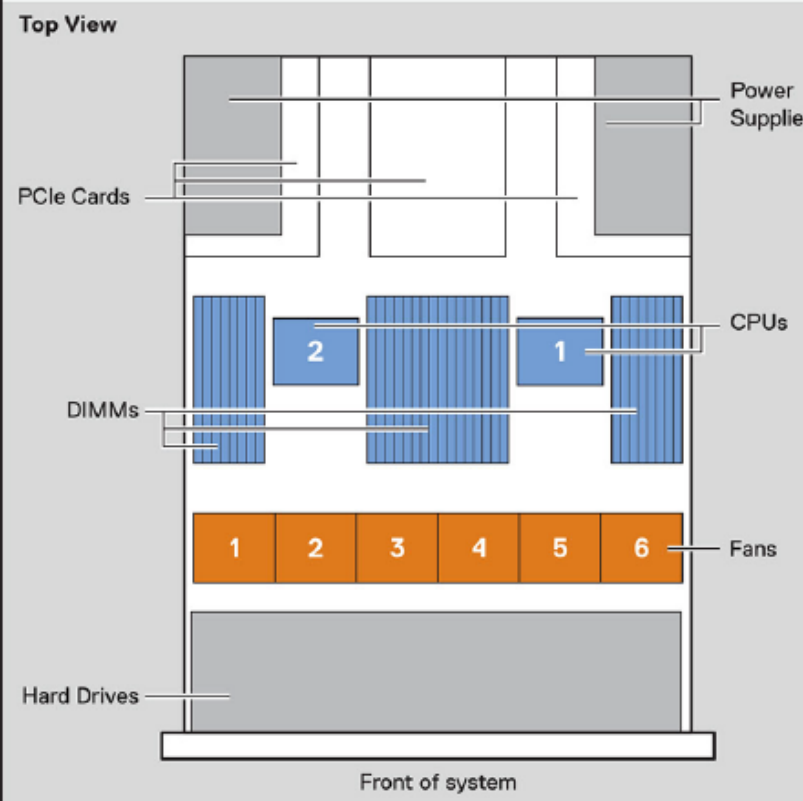
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 42. Installing the cooling fan cage assembly Installation and Service Manual, 50. See claim 1.
[7] The cooling structure of an electronic device according to claim 4, wherein the plurality of power source units are each positioned along an extension downstream from the plurality of memory devices.	The plurality of power source units in the Accused Dell '265 Products are each positioned along an extension downstream from the plurality of memory devices. <i>See, e.g.,:</i>

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))														
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview  Installation and Service Manual, 21. See claim 4.
[8] The electronic device according to claim 1, wherein the plurality of fans are arranged in a direction normal to the longitudinal	The plurality of fans in the Accused Dell '265 Products are arranged in a direction normal to the longitudinal direction, the central processing unit is positioned in a first row, the first row extending parallel to the direction, the plurality of power source units are each positioned in a second row, the second row extending parallel to the direction, the second row being positioned farther from a

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
direction, the central processing unit is positioned in a first row, the first row extending parallel to the direction, the plurality of power source units are each positioned in a second row, the second row extending parallel to the direction, the second row being positioned farther from a longitudinal center of the housing than the first row, and the second row being positioned farther from the plurality of fans than the first row.	longitudinal center of the housing than the first row, and the second row being positioned farther from the plurality of fans than the first row. <i>See, e.g.,:</i>

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))														
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**CloudByte's Patent Initial Disclosures For Dell
Exhibit 8**

UNITED STATES PATENT NO. 9,629,265

INFRINGEMENT CHART FOR CLAIMS 1–8¹

'265 Patent Claim² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found³ (P.R. 3-1(b)-(c))
[1pre] An electronic device comprising: ⁴	The Accused Dell '265 Products are electronic devices.

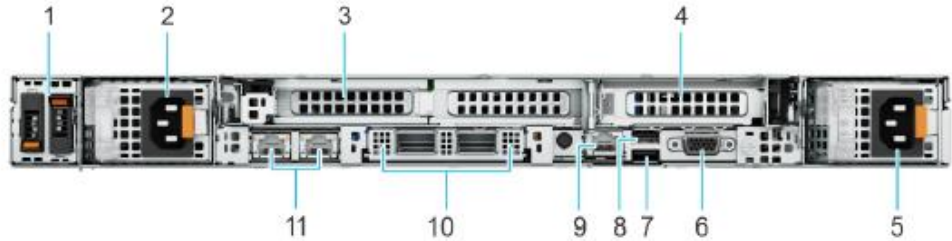
¹ The infringement contentions provided herein are based on information obtained to date and may not be exhaustive. CloudByte's investigation of Dell's infringement is ongoing. CloudByte reserves the right to supplement and/or amend these disclosures to identify additional Asserted Claims (P.R. 3-1(a)), to identify additional Accused Instrumentalities (P.R. 3-1(b)), and to further identify where each element of each Asserted Claim is found in each Accused Instrumentality (P.R. 3-1(c)), including on the basis of discovery obtained from Dell and from third-parties during the course of this litigation.

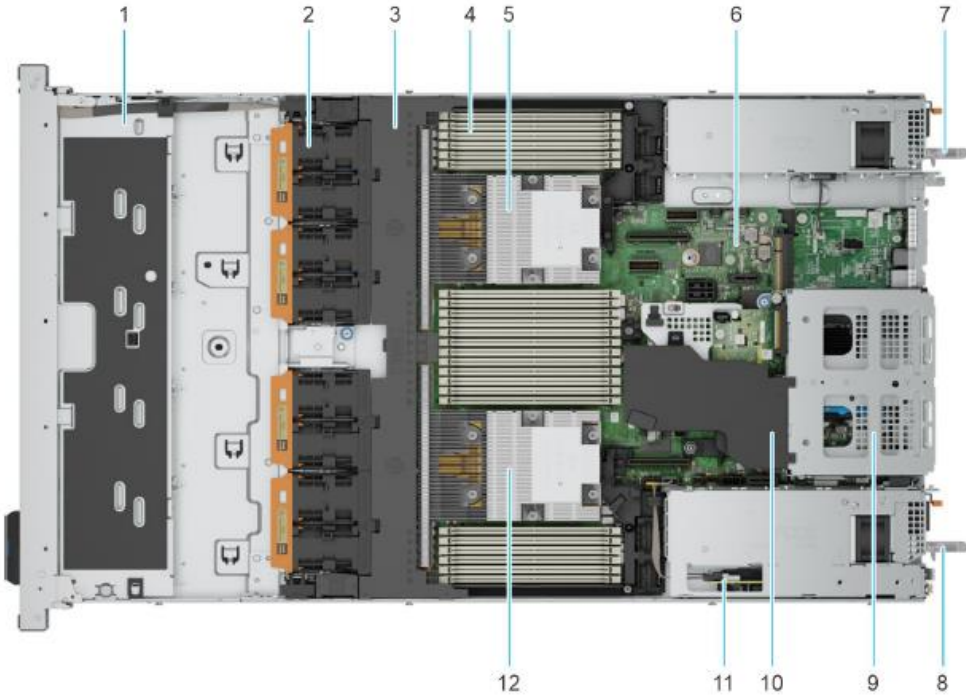
² All infringement contentions set forth herein for any independent patent claims are hereby incorporated by reference into the infringement contentions alleged for any dependent patent claims that depend on such independent claims, as if fully set forth therein.

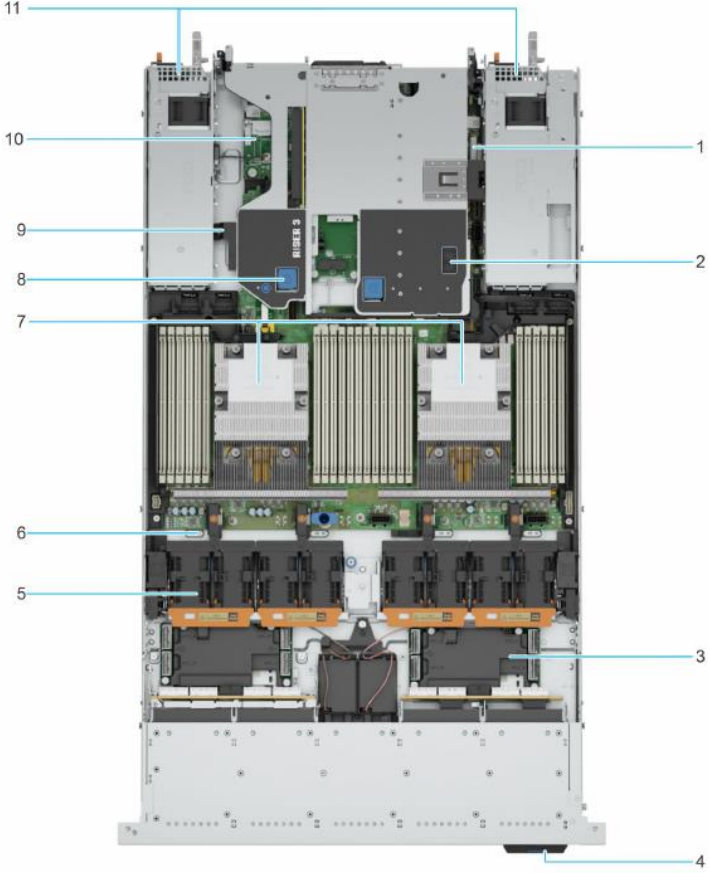
³ The Accused Instrumentalities and associated exhibits discussed and/or cited for any claim herein are representative in all material respects of all other Accused Instrumentalities identified for that claim (e.g., although various servers may have immaterial differences in their hardware, firmware, and/or software configuration, the cited references are believed to be illustrative of all such accused server models). For example, on information and belief, the internal server or rack layout of the Dell PowerEdge servers identified as Accused Instrumentalities is substantially similar to the layout shown here. On information and belief, there are no material differences in the server or rack layout among the Dell PowerEdge servers identified as Accused Instrumentalities that would substantially alter the infringement read shown here. *See, e.g.*, CLOUDBYTE0005739-0008862, CLOUDBYTE0021015-0021339. The illustrative documentation cited herein is for the Dell PowerEdge R6625 server (hereinafter "Installation and Service Manual"), which is dated March 2024, and can be found at the following Bates No: CLOUDBYTE0006421-0006665. Other Dell servers, including Dell PowerEdge servers from the 14th to 17th generation identified as Accused Instrumentalities, also infringe the claims of the '265 Patent. *See, e.g.*, CLOUDBYTE0005739-0008862, CLOUDBYTE0021015-0021339.

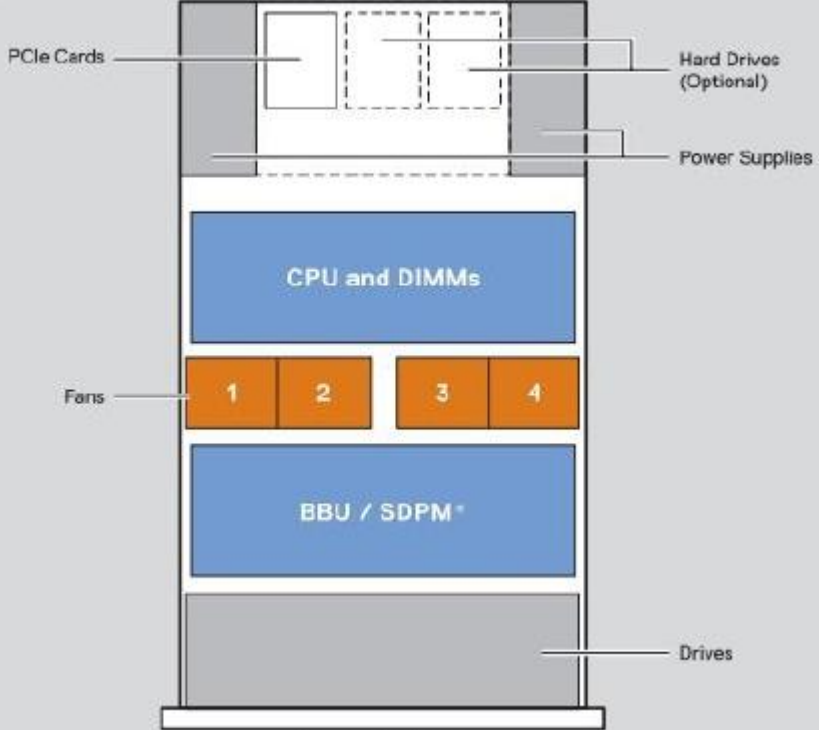
⁴ CloudByte's inclusion of any claim preamble in this claim chart should not be interpreted as an admission that the preamble is limiting. CloudByte reserves the right to take the position that the claim preambles are limiting or not limiting on a claim-by-claim basis.

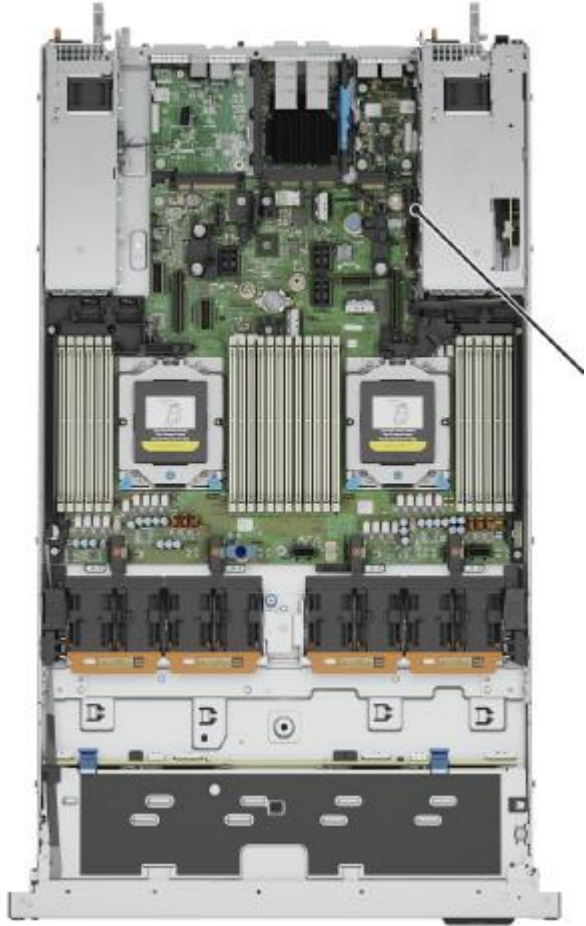
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	<i>See, e.g.,:</i> System overview The Dell™ PowerEdge™ R6625 (2S1U) is Dell's latest 2-socket, 1U rack servers designed to run complex workloads using highly scalable memory, I/O, and network options. The system features: • Two AMD EPYC 4th Generation 9004 series processor with up to 128 cores • Optional Direct Liquid Cooling (DLC) for required CPUs and/or configurations • Up to 24 RDIMMs with up to 6 TB of memory and speeds up to 4800 MT/s • Two redundant AC or DC power supply units • Up to 10 x 2.5-inch SATA/SAS/NVMe or 8 x 2.5-inch SATA/SAS/NVMe drives or 4 x 3.5-inch SATA/SAS • Up to 14 x E3.S NVMe direct drives or 16 x E3.S, 2 x E3.S (rear) NVMe direct drives • PCI Express® (PCIe) 5.0 enabled expansion slots • Network interface technologies to cover Network Interface Card (NIC) The PowerEdge R6625 is a general-purpose platform capable of handling demanding workloads and applications, such as data warehouses, eCommerce, databases, and high-performance computing (HPC). Topics: • Front view of the system • Rear view of the system • Inside the system • Locating the Express Service Code and Service Tag • System information label • Rail sizing and rack compatibility matrix Front view of the system  The image shows the front view of a Dell PowerEdge R6625 server. It is a 1U rack server with a black front panel. There are five numbered callouts: 1 points to the left bezel, 2 points to the first drive bay, 3 points to the top bezel, 4 points to the right bezel, and 5 points to the bottom bezel.

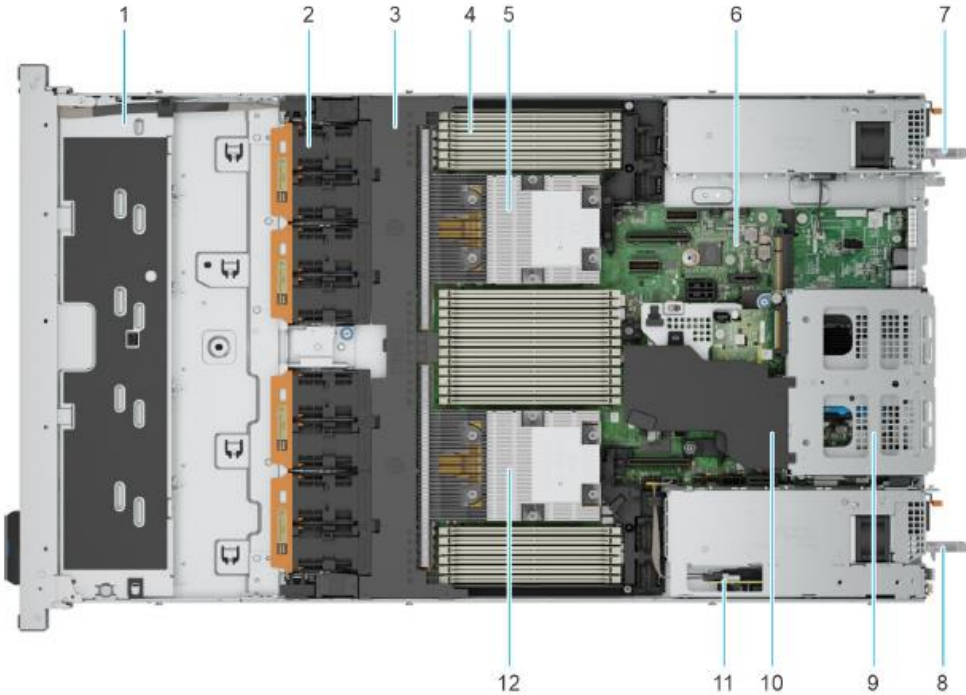
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Installation and Service Manual (CLOUDBYTE0006421-0006665), 9. Rear view of the system  Figure 6. Rear view of the system R6625 Installation and Service Manual, 13.

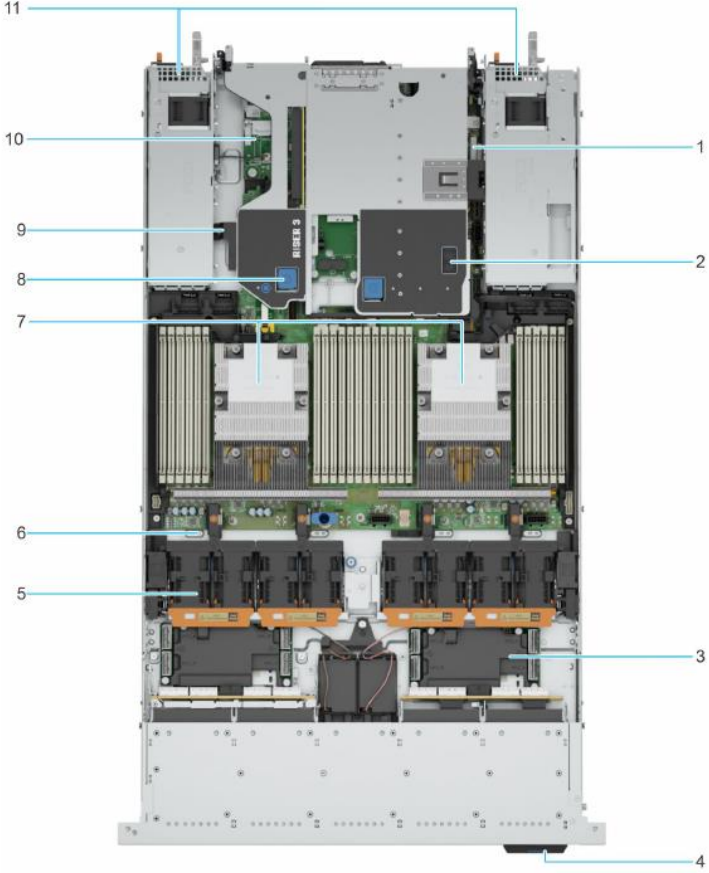
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))		
	Inside the system  Figure 10. Inside view of the PowerEdge R6625. <table border="0"> <tr> <td data-bbox="604 1133 919 1317"> 1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module </td> <td data-bbox="1230 1133 1549 1317"> 2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1 </td> </tr> </table> Installation and Service Manual, 17.	1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module	2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1
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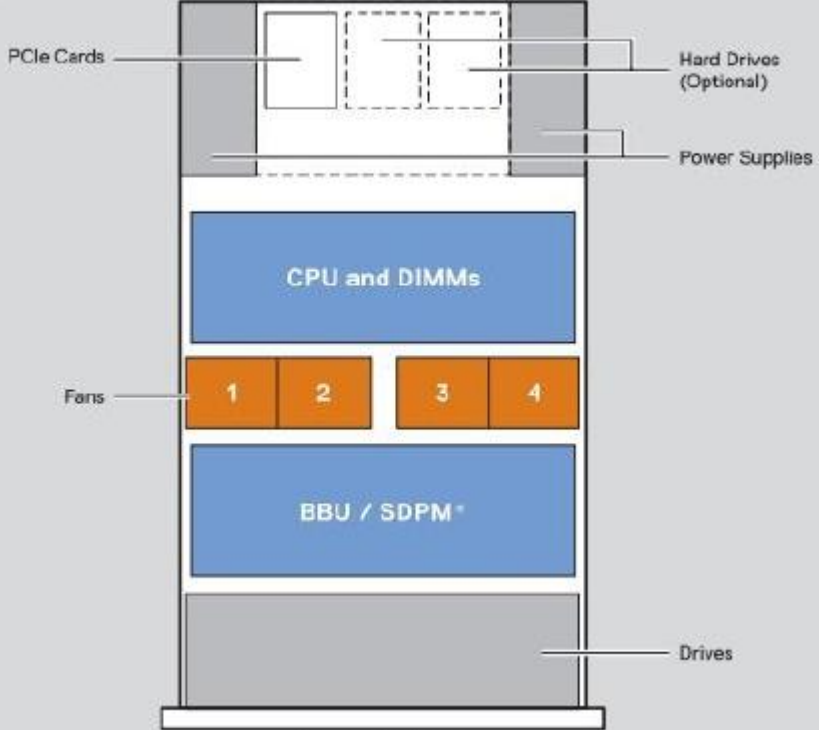
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
	 Figure 11. Inside view of the PowerEdge R6625. <table> <tr> <td>1. BOSS Module</td> <td>2. Rear E3.S drive module</td> </tr> <tr> <td>3. E3.S front PERC</td> <td>4. Information tag</td> </tr> <tr> <td>5. Fans</td> <td>6. Fan connector</td> </tr> <tr> <td>7. Processor and Heat sink</td> <td>8. Riser 3</td> </tr> <tr> <td>9. NIC</td> <td>10. System board</td> </tr> <tr> <td>11. PSU</td> <td></td> </tr> </table> Installation and Service Manual, 18.	1. BOSS Module	2. Rear E3.S drive module	3. E3.S front PERC	4. Information tag	5. Fans	6. Fan connector	7. Processor and Heat sink	8. Riser 3	9. NIC	10. System board	11. PSU	
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 20.

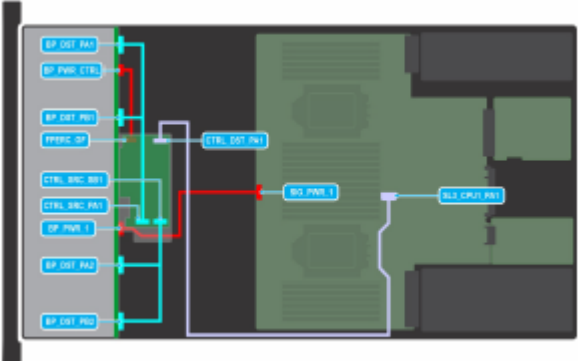
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188.
[1a] a housing comprising a front face and a rear face which are distanced from each other in a longitudinal direction;	The Accused Dell '265 Products include a housing comprising a front face and a rear face which are distanced from each other in a longitudinal direction. <i>See, e.g.,:</i>

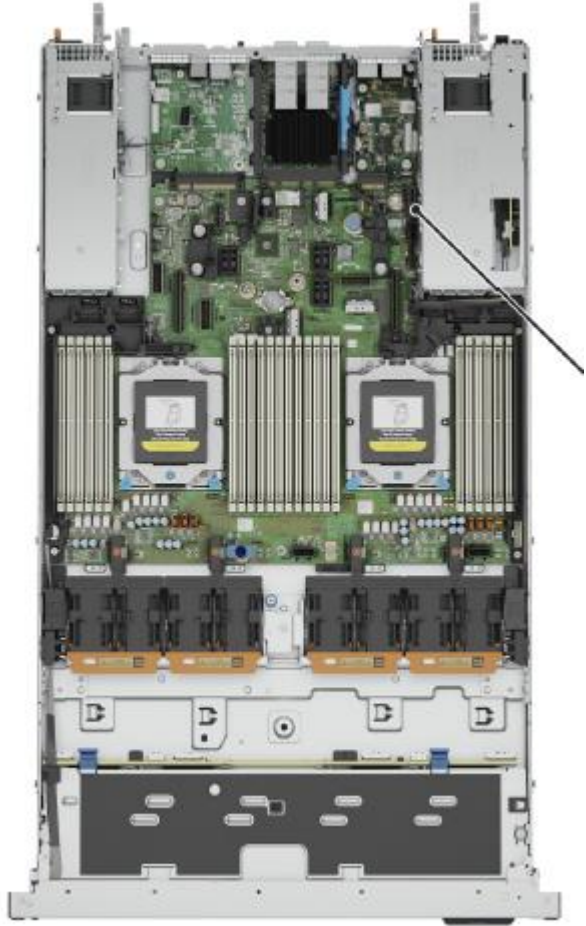
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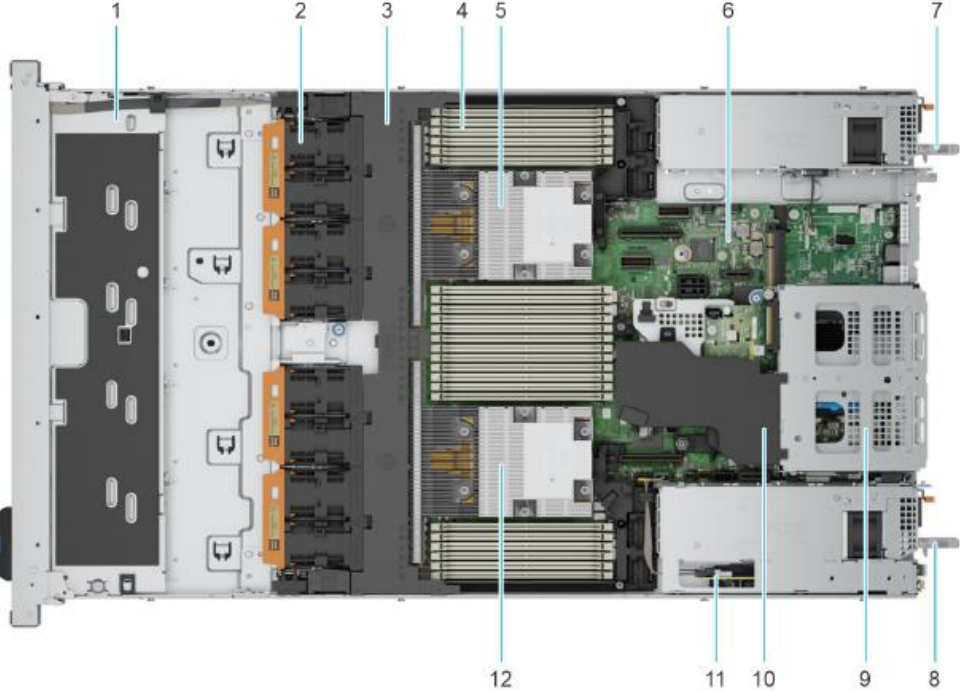
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 11. Inside view of the PowerEdge R6625. 1. BOSS Module 2. Rear E3.S drive module 3. E3.S front PERC 4. Information tag 5. Fans 6. Fan connector 7. Processor and Heat sink 8. Riser 3 9. NIC 10. System board 11. PSU Installation and Service Manual, 18.

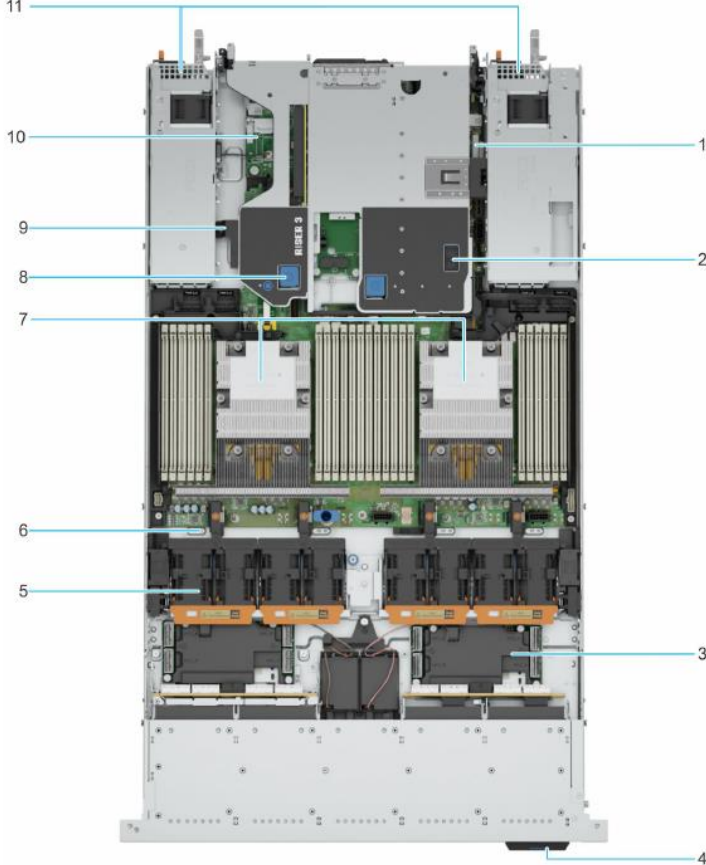
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 20.

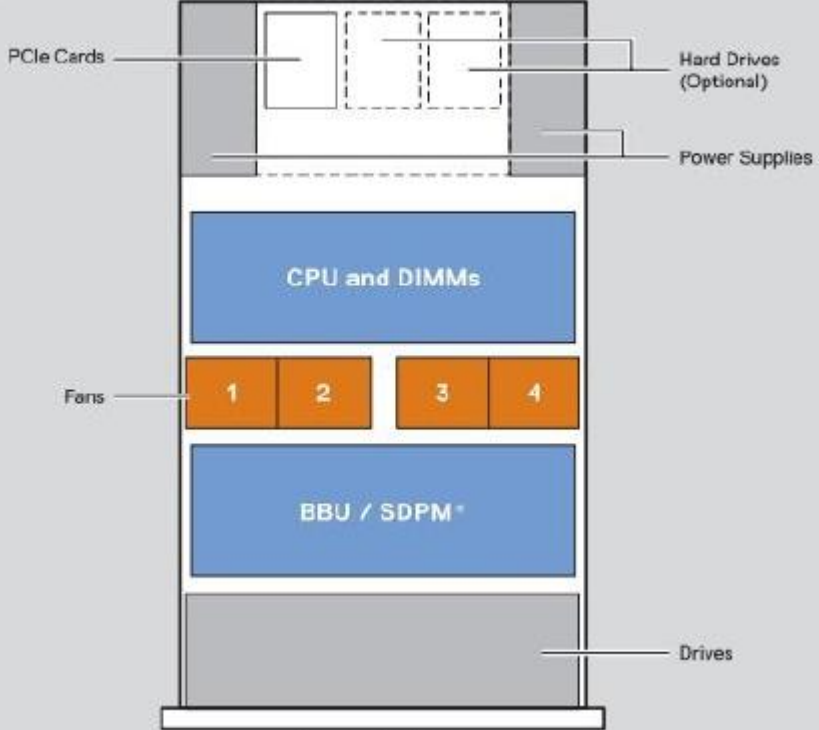
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Installation and Service Manual, 109. Installation and Service Manual, 110.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 111.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188. See 1[pre].
[1b] a plurality of fans which are arranged inside the housing close to the	The Accused Dell '265 Products include a plurality of fans which are arranged inside the housing close to the front face so as to cause cooling air to flow downstream in the longitudinal direction from the front face to the rear face of the housing.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
front face so as to cause cooling air to flow downstream in the longitudinal direction from the front face to the rear face of the housing;	See, e.g.,: Inside the system  Figure 10. Inside view of the PowerEdge R6625. <table border="0"> <tbody> <tr> <td>1. Front Storage cover</td><td>2. Fans</td></tr> <tr> <td>3. Air shroud</td><td>4. Memory</td></tr> <tr> <td>5. Processor 2 and Heat sink 2</td><td>6. System Board</td></tr> <tr> <td>7. PSU 2</td><td>8. PSU 1</td></tr> <tr> <td>9. NIC</td><td>10. Rear drive module air shroud</td></tr> <tr> <td>11. BOSS Module</td><td>12. Processor 1 and Heat sink 1</td></tr> </tbody> </table>	1. Front Storage cover	2. Fans	3. Air shroud	4. Memory	5. Processor 2 and Heat sink 2	6. System Board	7. PSU 2	8. PSU 1	9. NIC	10. Rear drive module air shroud	11. BOSS Module	12. Processor 1 and Heat sink 1
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 20.

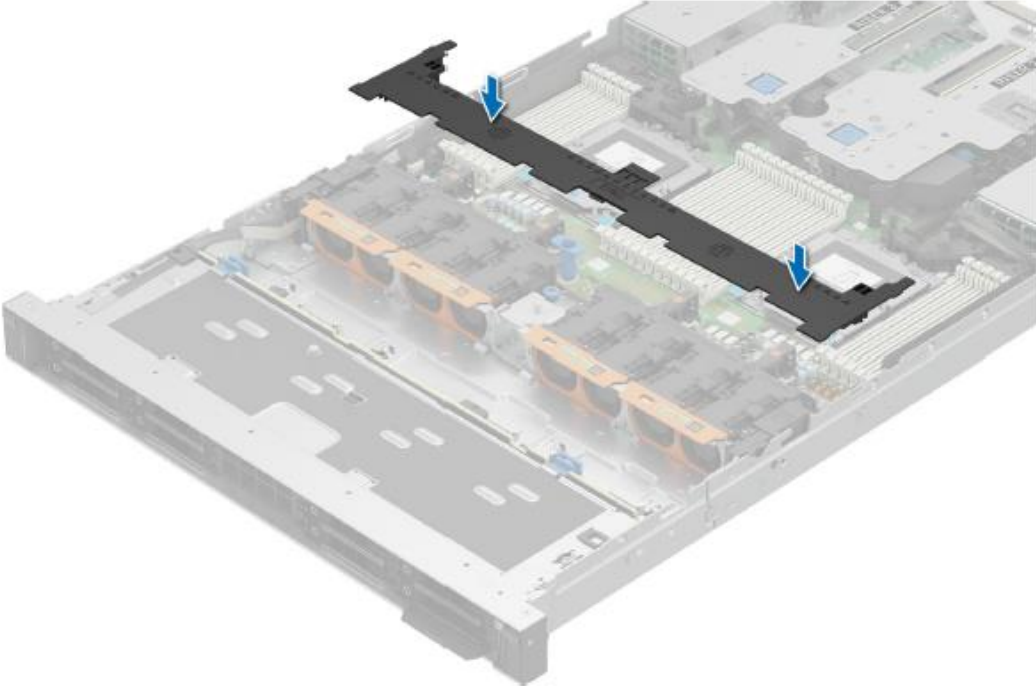
'265 Patent Claim²
(P.R. 3-1(a))

Accused Instrumentalities And Where Each Claim Element Is Found³
(P.R. 3-1(b)-(c))

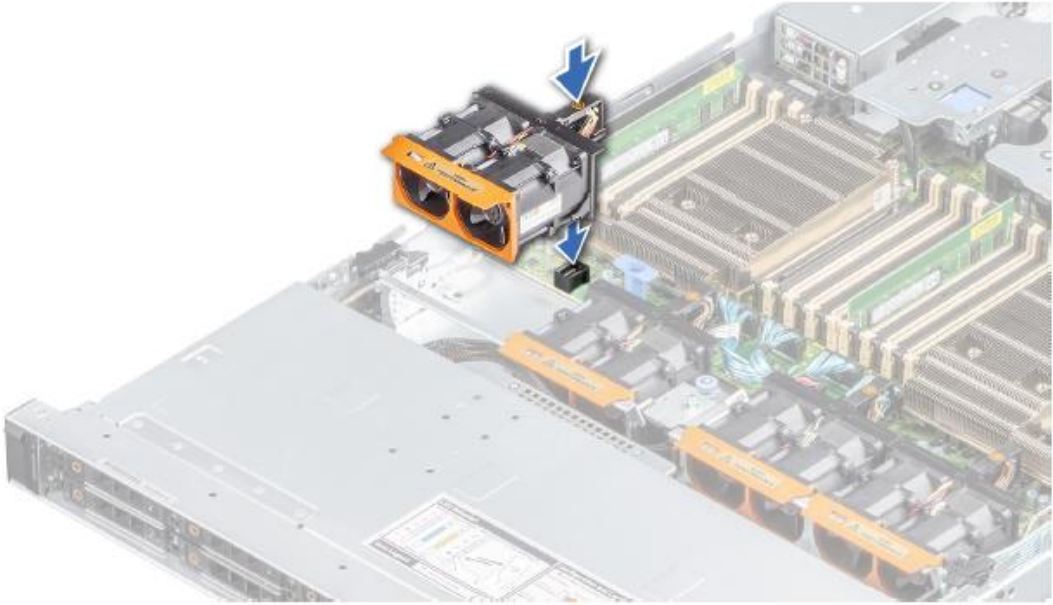
Service Information
Electrical Overview
System Board Connections

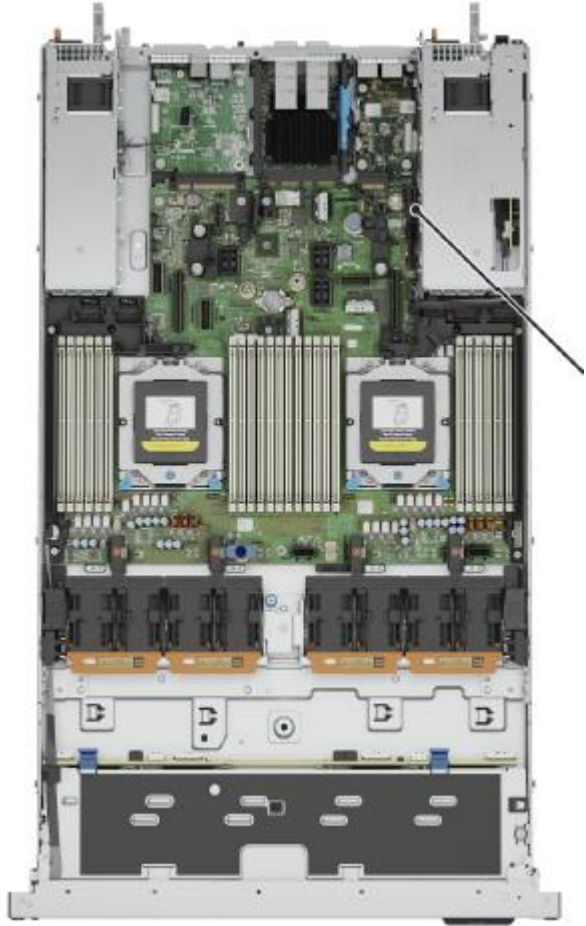
Legend:

- 1 Rear I/O Connector
- 2 Intrusion Switch Connector
- 3 TPM Connector
- 4 OCP NiC 3.0 Connector
- 5 LOM Connector
- 6 PCIe Connector (DSL_CPU1_PB2)
- 7 IDSDM / Internal USB Connector
- 8 Jumper
- 9 PWR Connector 0 – Use for Rear BP
- 10 BOSS Card Power
- 11 Riser 2
- 12 PSU 1 PUCK Sideband Signal
- 13 Riser 1
- 14 PCIe Connector 6 (SL6_CPU1_PA3)
- 15 PWR 1_A
- 16 Front VGA Connector
- 17 PCIe Connector 5 (SL5_CPU1_PB2)
- 18 PCIe Connector 4 (SL4_CPU1_PB1)
- 19 PCIe Connector 3 (SL3_CPU1_PA1)
- 20 DIMMs for CPU 2
- 21 CPU 2
- 22 DIMMs for CPU 2
- 23 DIMMs for CPU 1
- 24 CPU 1
- 25 DIMMs for CPU 1
- 26 Right Control Panel Connector
- 27 PWR Connector 2 – Use for BP only
- 28 FAN 4
- 29 FAN 3
- 30 PWR Connector 1 – Use for BP only
- 31 FAN 2
- 32 FAN 1
- 33 Left Control Panel Connector
- 34 Coin Cell Battery
- 35 PCIe Connector 2 (SL2_CPU2_PB4)
- 36 Riser 4 – Requires CPU 2
- 37 PWR 2_A
- 38 PCIe Connector 1 (SL1_CPU2_PA4)
- 39 Riser 3 – Requires CPU2
- 40 PSU 2 PUCK Sideband Signal
- 41 Battery SIG Connector

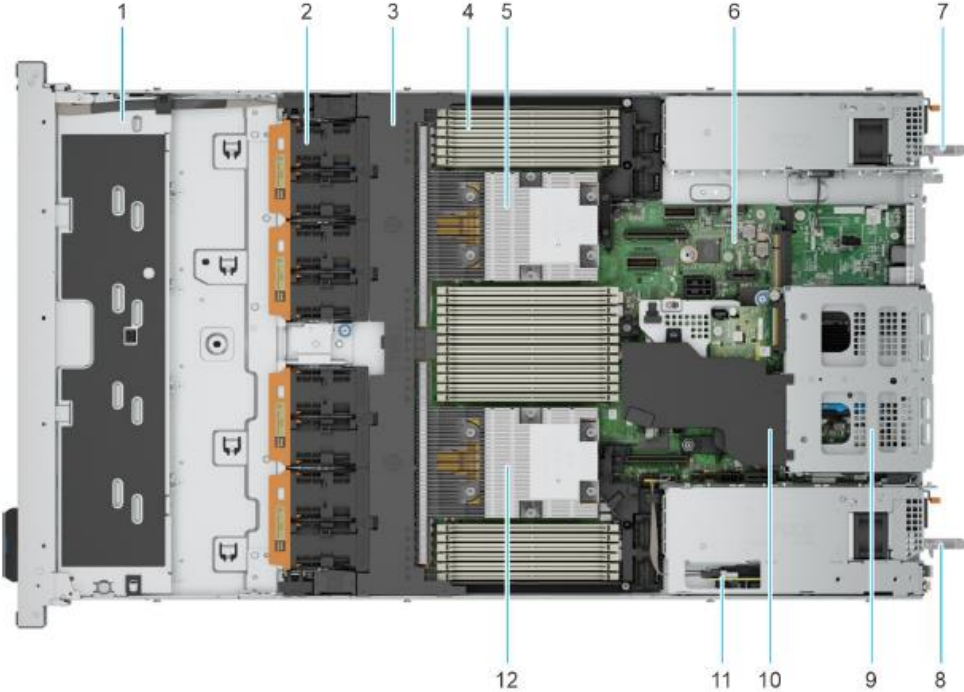
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 59. Installing the air shroud Installation and Service Manual, 93.

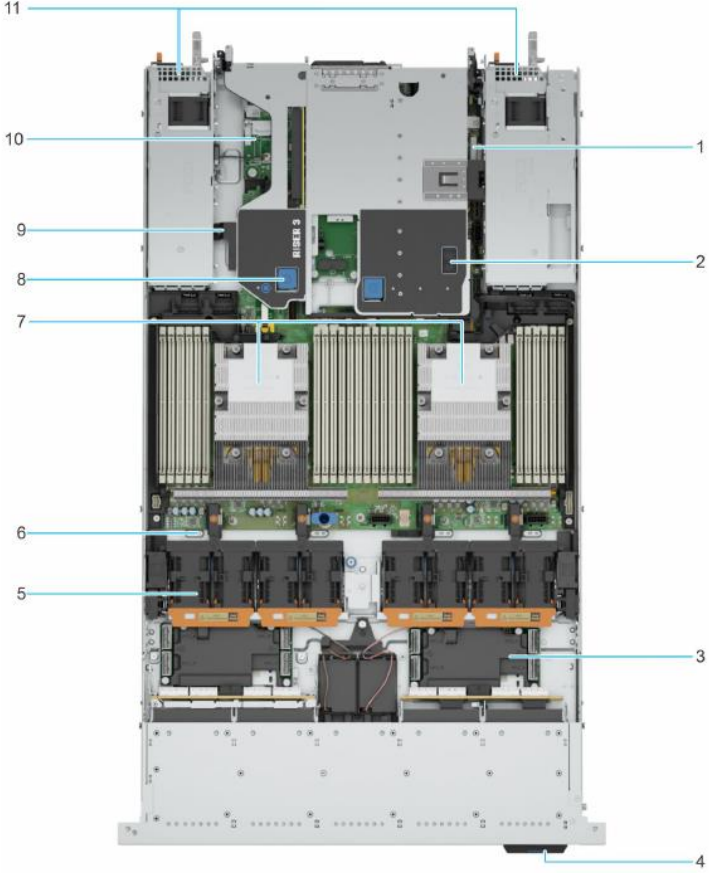
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 61. Removing a cooling fan module Installation and Service Manual, 94.

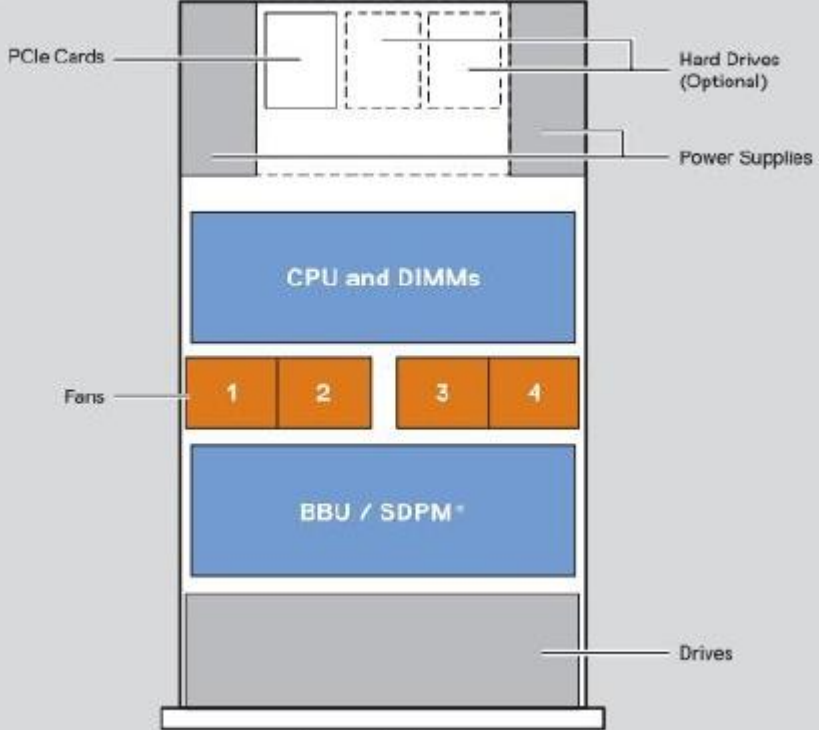
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 62. Installing a cooling fan module Installation and Service Manual, 95.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188. See 1[a].
[1c] a central processing unit (CPU) which is arranged downstream of the	The Accused Dell '265 Products include a central processing unit (CPU) which is arranged downstream of the plurality of fans in the housing and positioned to allow the cooling air to directly flow therethrough.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
plurality of fans in the housing and positioned to allow the cooling air to directly flow therethrough;	<i>See, e.g.,:</i>

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))		
	Inside the system  Figure 10. Inside view of the PowerEdge R6625. <table border="0"> <tr> <td data-bbox="604 1133 913 1317"> 1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module </td> <td data-bbox="1228 1133 1549 1317"> 2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1 </td> </tr> </table> Installation and Service Manual, 17.	1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module	2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 11. Inside view of the PowerEdge R6625. 1. BOSS Module 2. Rear E3.S drive module 3. E3.S front PERC 4. Information tag 5. Fans 6. Fan connector 7. Processor and Heat sink 8. Riser 3 9. NIC 10. System board 11. PSU Installation and Service Manual, 18.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
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'265 Patent Claim²
(P.R. 3-1(a))

Accused Instrumentalities And Where Each Claim Element Is Found³
(P.R. 3-1(b)-(c))

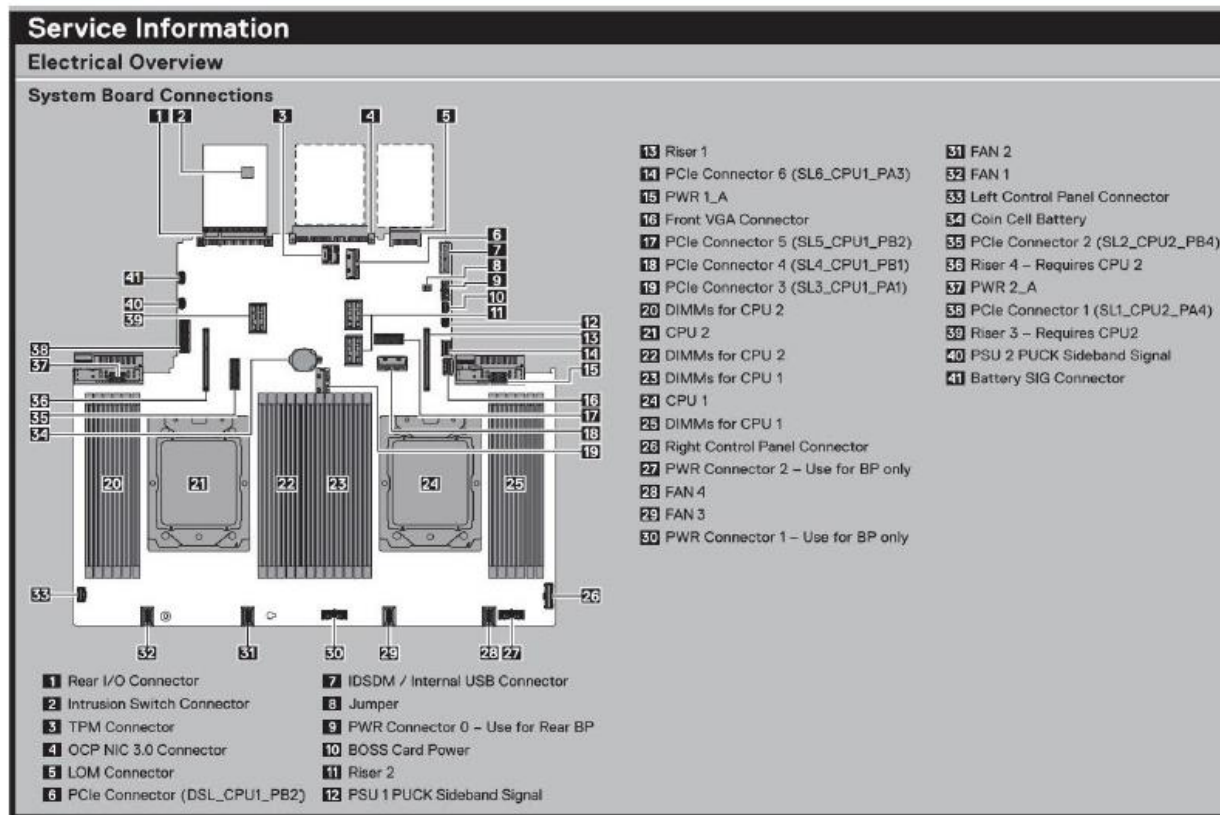
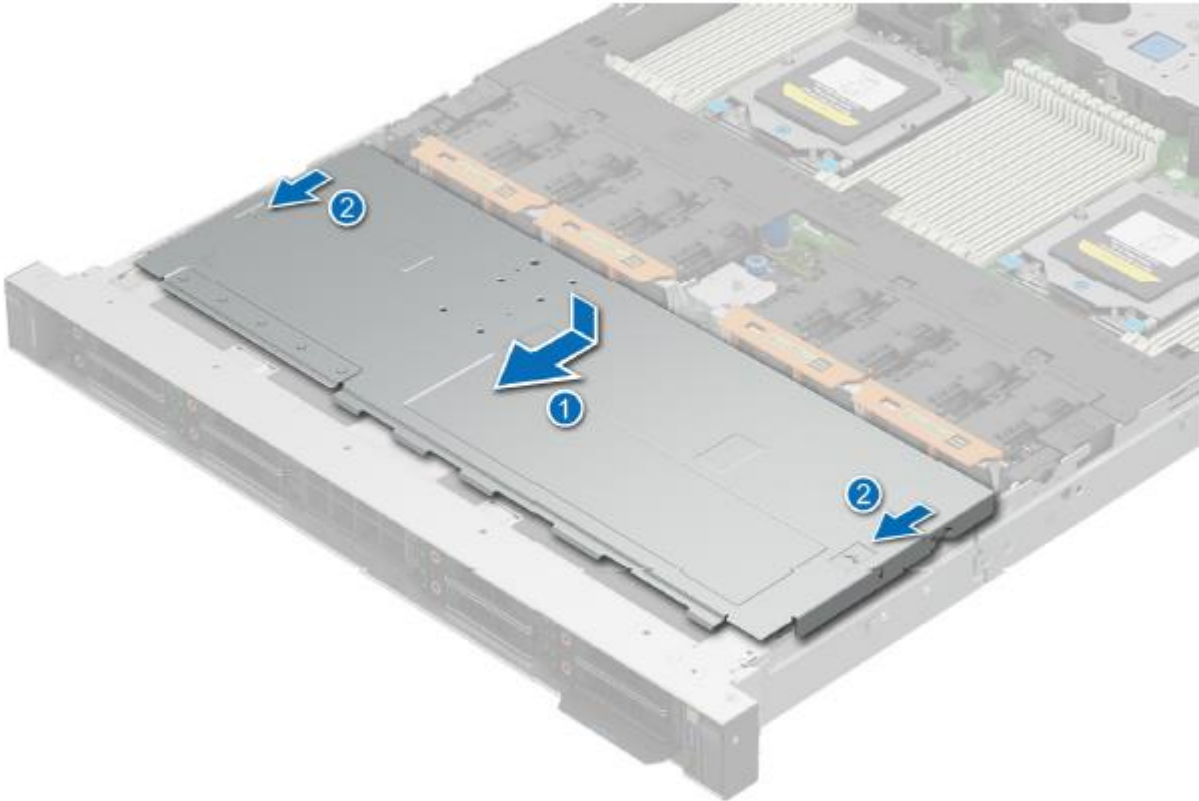
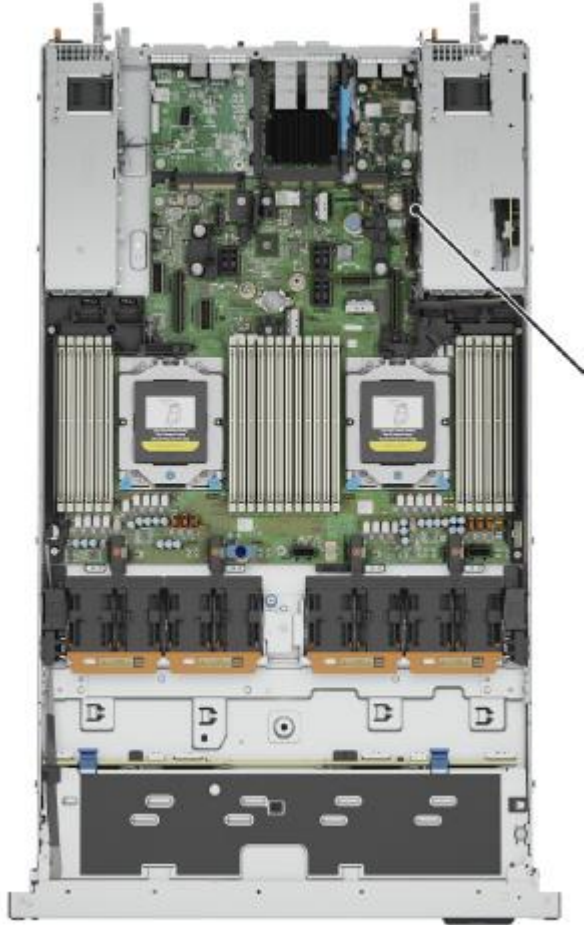
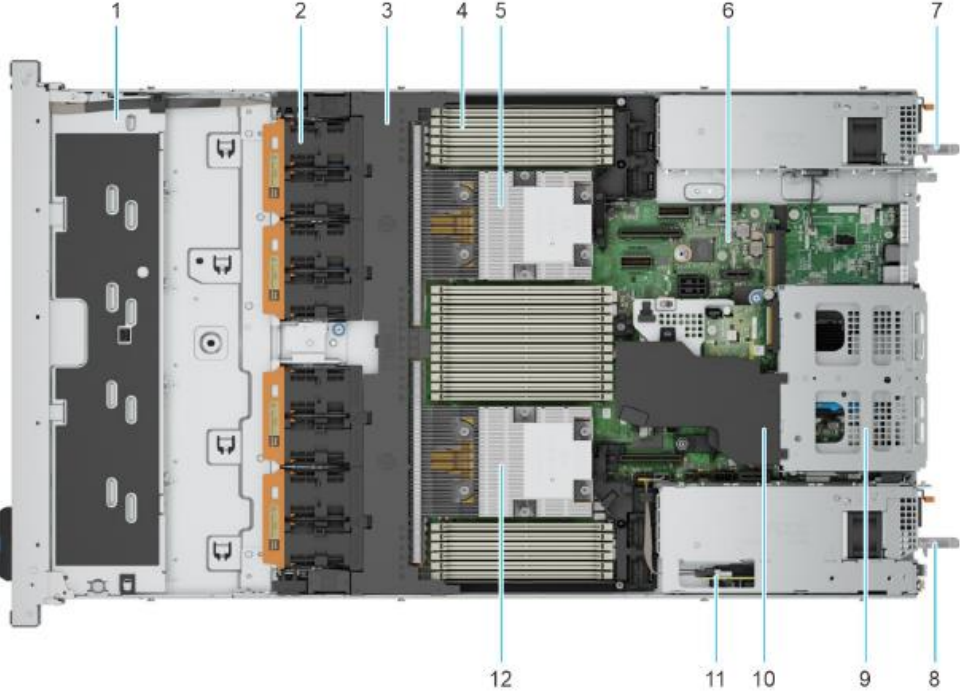


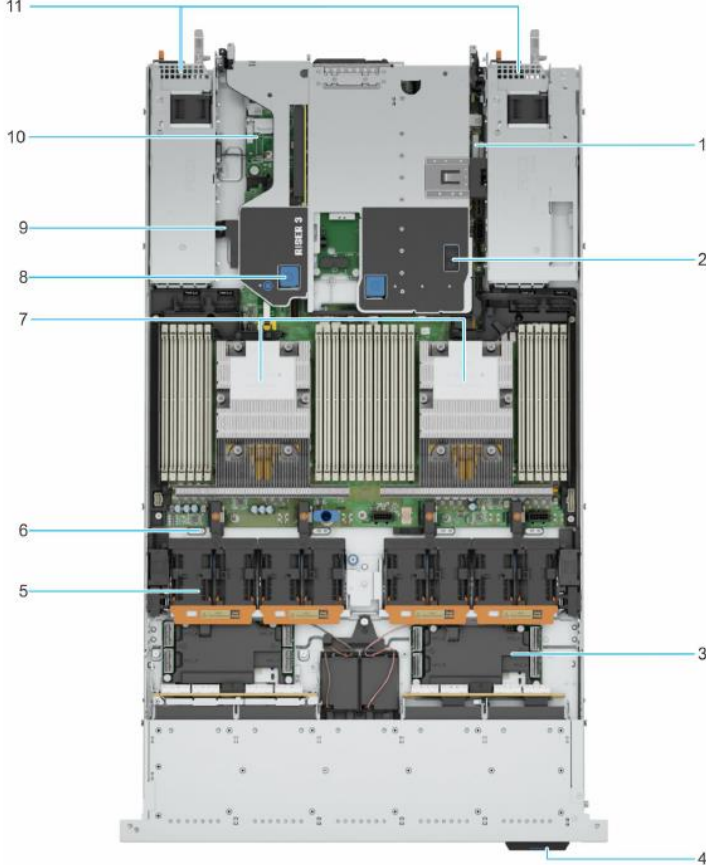
Figure 15. Electrical information
Installation and Service Manual, 21.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 84.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 124. Placing the processor tray into the rail frame Installation and Service Manual, 137.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188. See 1[b].
[1d] a plurality of memory devices adjacent to the CPU in a width direction,	The Accused Dell '265 Products include a plurality of memory devices adjacent to the CPU in a width direction, substantially normal to the longitudinal direction, of the housing.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
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11. BOSS Module	12. Processor 1 and Heat sink 1												

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
	Installation and Service Manual, 17.  Figure 11. Inside view of the PowerEdge R6625. <table border="0" data-bbox="596 1234 1310 1370"> <tbody> <tr> <td data-bbox="596 1234 743 1253">1. BOSS Module</td><td data-bbox="1100 1234 1310 1253">2. Rear E3.S drive module</td></tr> <tr> <td data-bbox="596 1260 764 1279">3. E3.S front PERC</td><td data-bbox="1100 1260 1247 1279">4. Information tag</td></tr> <tr> <td data-bbox="596 1286 659 1305">5. Fans</td><td data-bbox="1100 1286 1247 1305">6. Fan connector</td></tr> <tr> <td data-bbox="596 1312 827 1331">7. Processor and Heat sink</td><td data-bbox="1100 1312 1184 1331">8. Riser 3</td></tr> <tr> <td data-bbox="596 1338 659 1357">9. NIC</td><td data-bbox="1100 1338 1226 1357">10. System board</td></tr> <tr> <td data-bbox="596 1364 659 1383">11. PSU</td><td></td></tr> </tbody> </table> Installation and Service Manual, 18.	1. BOSS Module	2. Rear E3.S drive module	3. E3.S front PERC	4. Information tag	5. Fans	6. Fan connector	7. Processor and Heat sink	8. Riser 3	9. NIC	10. System board	11. PSU	
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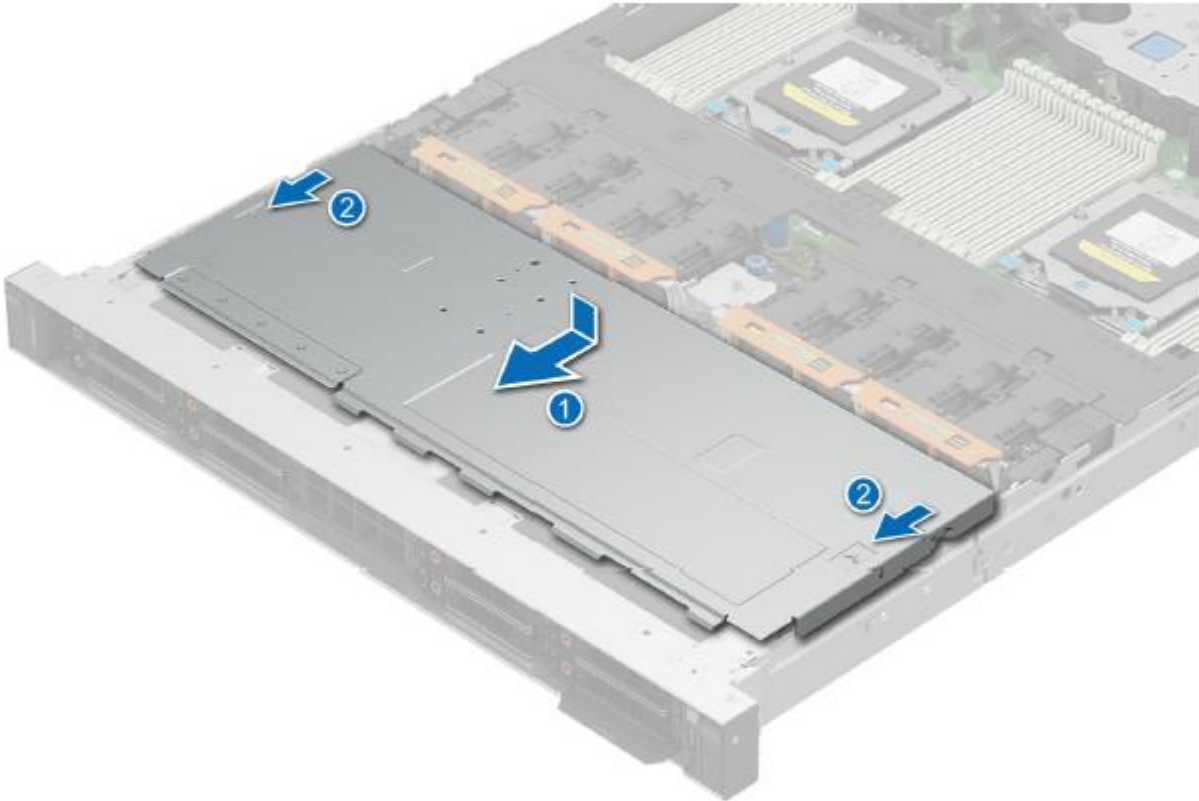
’265 Patent Claim²
(P.R. 3-1(a))

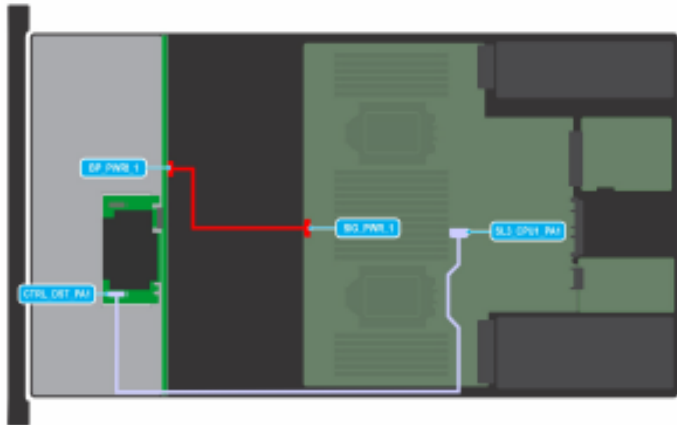
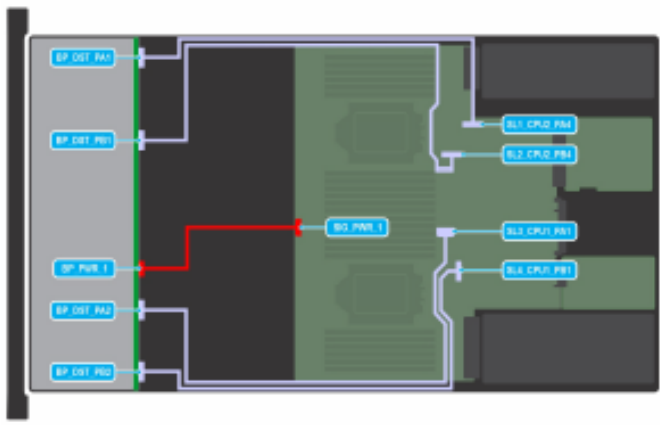
Accused Instrumentalities And Where Each Claim Element Is Found³
(P.R. 3-1(b)-(c))

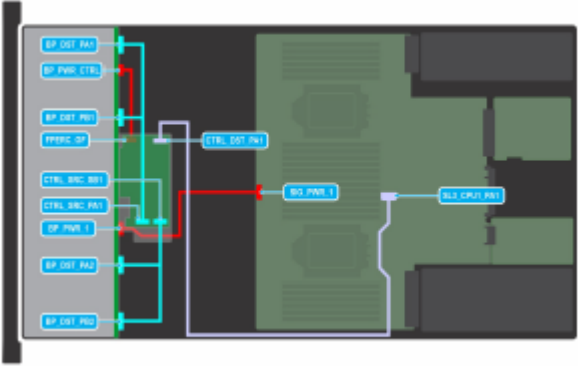
Service Information
Electrical Overview
System Board Connections

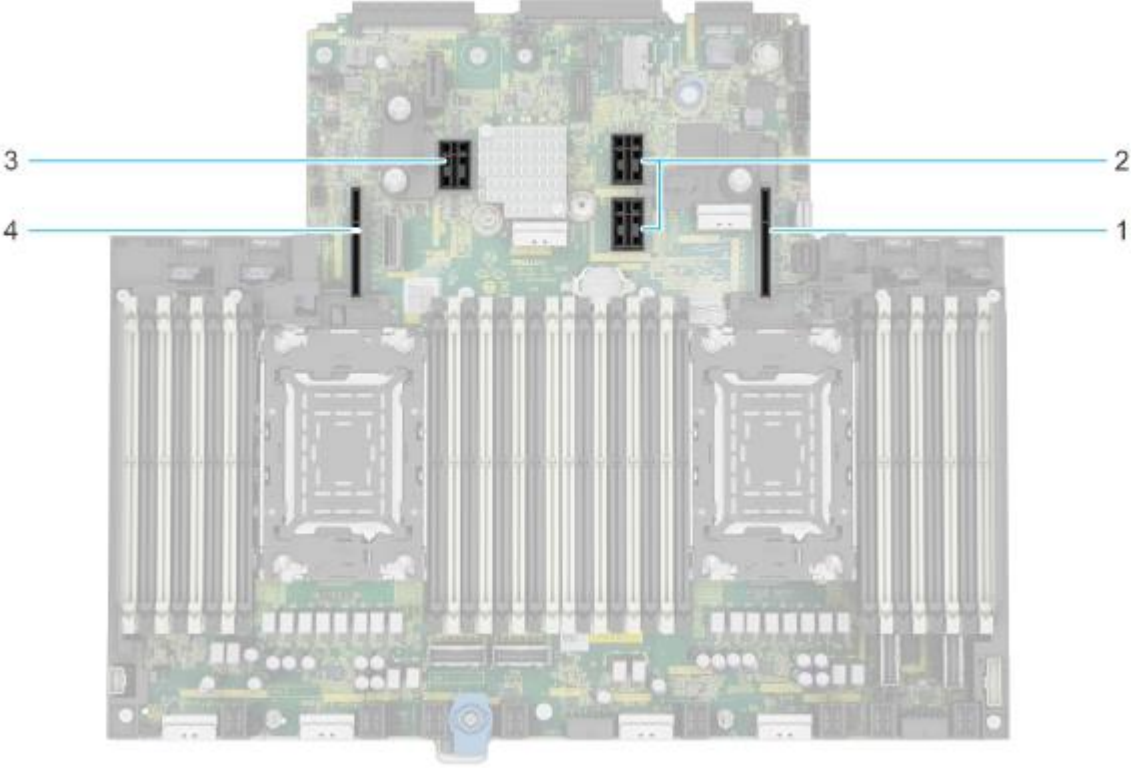
1 Rear I/O Connector
2 Intrusion Switch Connector
3 TPM Connector
4 OCP NIC 3.0 Connector
5 LOM Connector
6 PCIe Connector (DSL_CPU1_PB2)
7 IDSDM / Internal USB Connector
8 Jumper
9 PWR Connector 0 – Use for Rear BP
10 BOSS Card Power
11 Riser 2
12 PSU 1 PUCK Sideband Signal
13 Riser 1
14 PCIe Connector 6 (SL6_CPU1_PA3)
15 PWR 1_A
16 Front VGA Connector
17 PCIe Connector 5 (SL5_CPU1_PB2)
18 PCIe Connector 4 (SL4_CPU1_PB1)
19 PCIe Connector 3 (SL3_CPU1_PA1)
20 DIMMs for CPU 2
21 CPU 2
22 DIMMs for CPU 2
23 DIMMs for CPU 1
24 CPU 1
25 DIMMs for CPU 1
26 Right Control Panel Connector
27 PWR Connector 2 – Use for BP only
28 FAN 4
29 FAN 3
30 PWR Connector 1 – Use for BP only
31 FAN 2
32 FAN 1
33 Left Control Panel Connector
34 Coin Cell Battery
35 PCIe Connector 2 (SL2_CPU2_PB4)
36 Riser 4 – Requires CPU 2
37 PWR 2_A
38 PCIe Connector 1 (SL1_CPU2_PA4)
39 Riser 3 – Requires CPU2
40 PSU 2 PUCK Sideband Signal
41 Battery SIG Connector

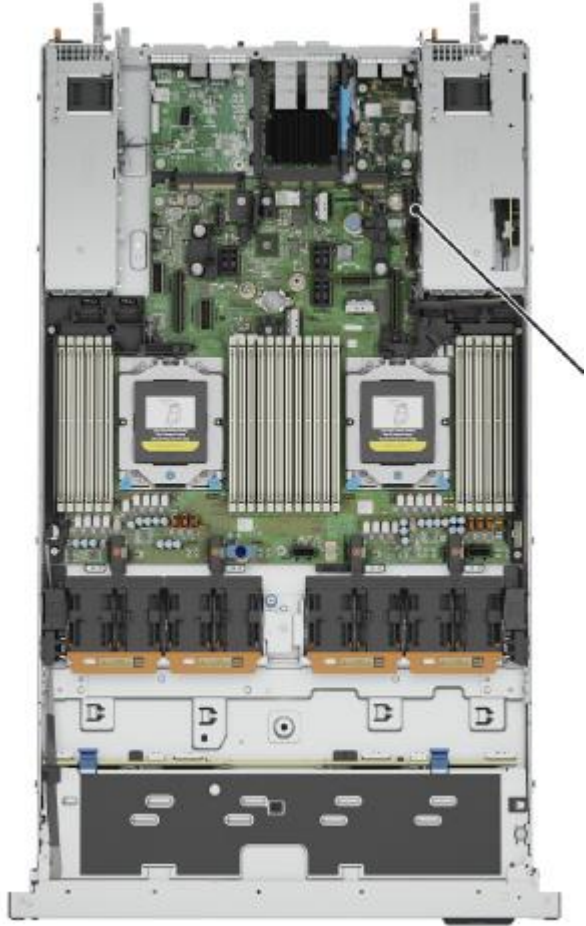
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))				
	Memory Information  Caution: Memory (DIMMs) and CPUs may be hot during servicing. Memory Population <table border="1"> <thead> <tr> <th>Configuration</th> <th>Sequence</th> </tr> </thead> <tbody> <tr> <td>Memory-Optimized</td> <td>1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12</td> </tr> </tbody> </table> Latest population rules are documented in the Installation and Service Manual. Figure 16. Memory information and system board connectors Installation and Service Manual, 21.	Configuration	Sequence	Memory-Optimized	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
Configuration	Sequence				
Memory-Optimized	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12				

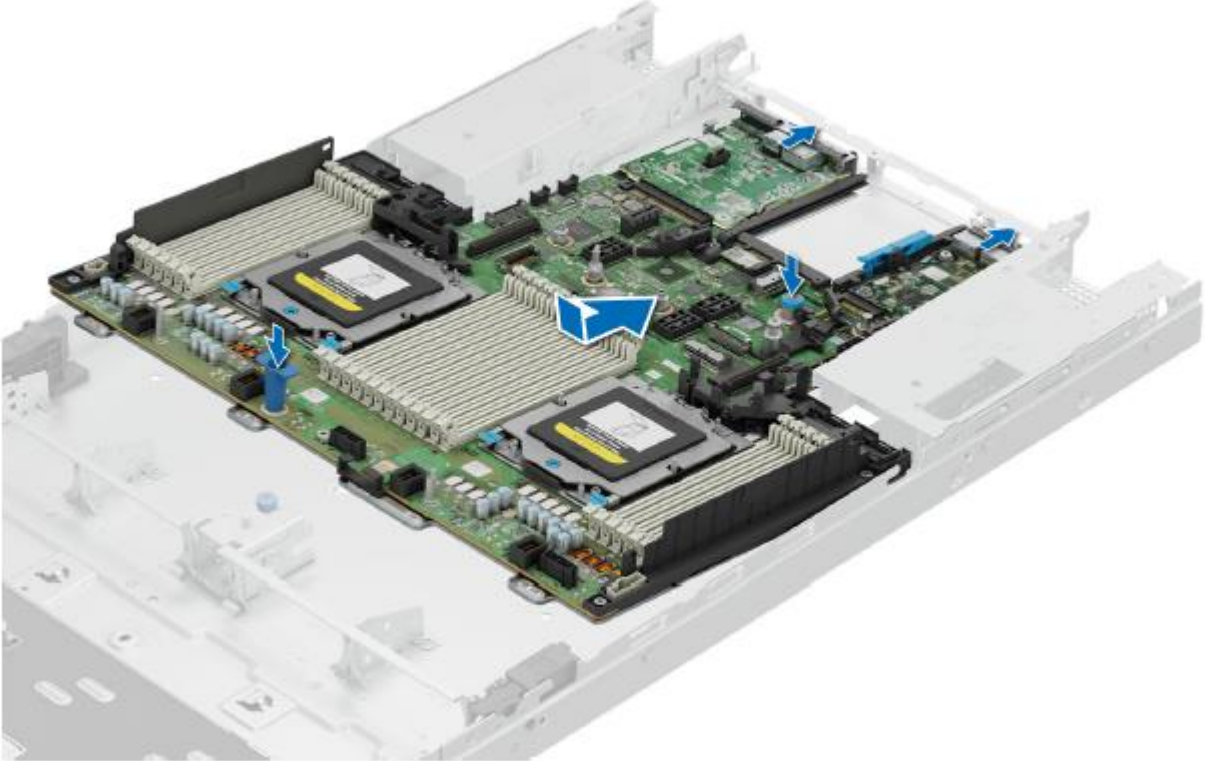
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 84.

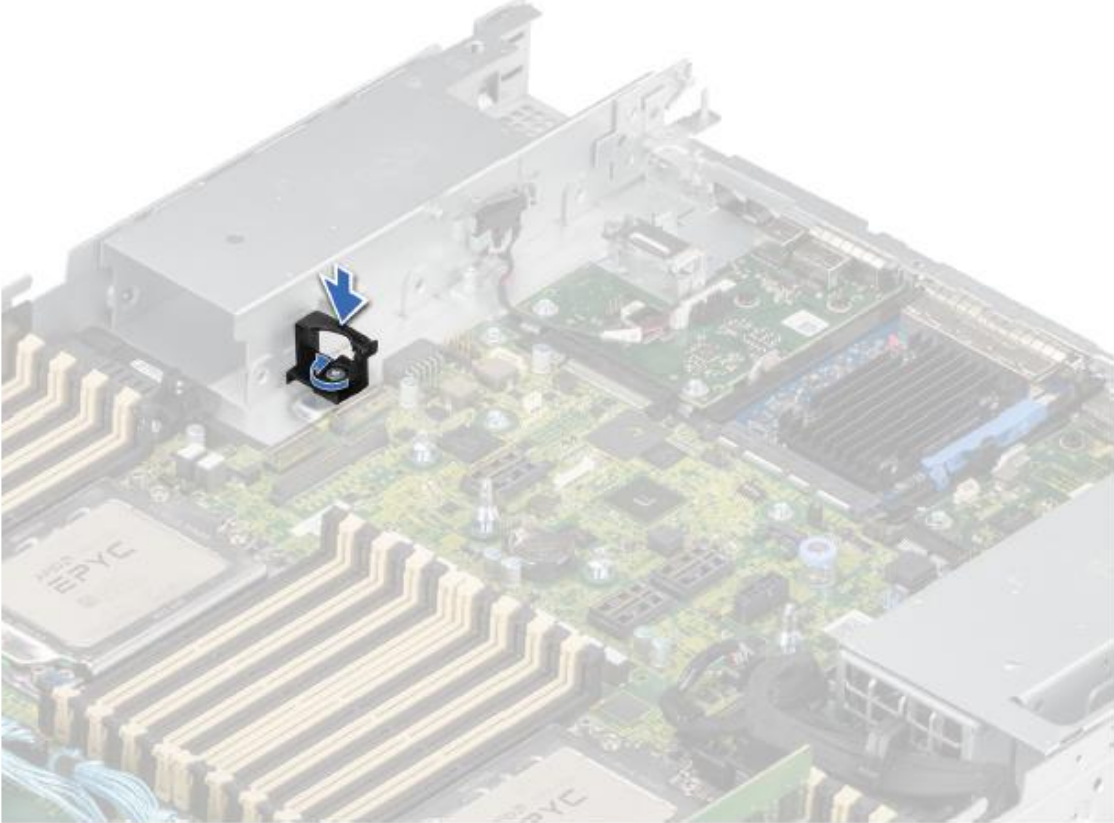
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 109.  Installation and Service Manual, 110.

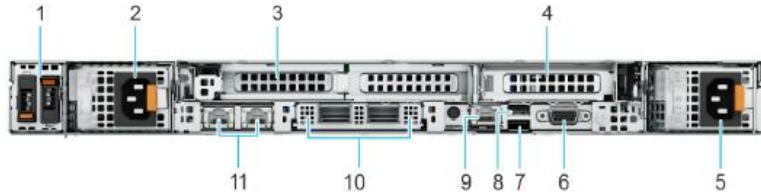
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 111.

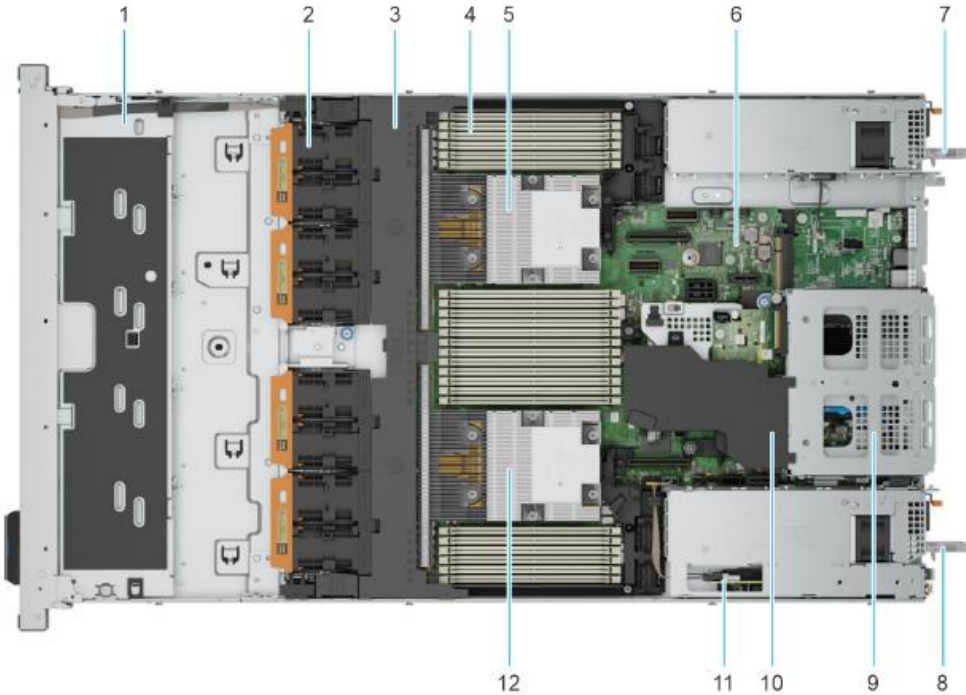
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 143.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 201.

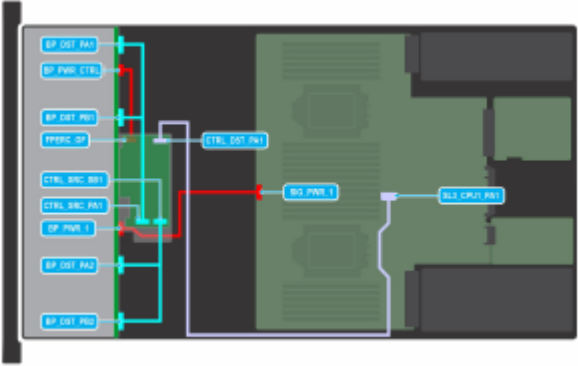
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 208. <i>See</i> 1[c].
[1e] a plurality of power source units which are positioned opposite to each other and spaced out from	The Accused Dell '265 Products include a plurality of power source units which are positioned opposite to each other and spaced out from each other in the width direction of the housing. <i>See, e.g.,:</i>

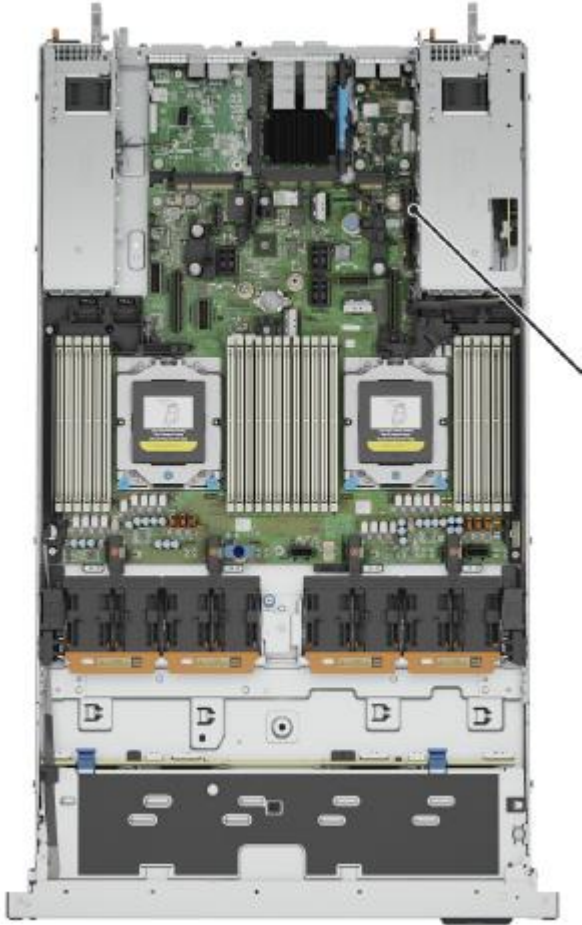
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))																												
each other in the width direction of the housing,	Rear view of the system  Figure 6. Rear view of the system R6625 Table 6. R6625 system rear view features <table><tr><th>Item</th><th>Ports, panels, or slots</th><th>Icon</th><th>Description</th></tr><tr><td>1</td><td>BOSS module</td><td>N/A</td><td>Insert BOSS blank when BOSS module is not used.</td></tr><tr><td>2</td><td>Power supply unit (PSU1)</td><td></td><td>For more information about the PSU configurations, see www.dell.com/poweredgemanuals section.</td></tr></table> Installation and Service Manual, 13. Table 6. R6625 system rear view features (continued) <table><tr><th>Item</th><th>Ports, panels, or slots</th><th>Icon</th><th>Description</th></tr><tr><td>3</td><td>PCIe expansion card riser 1</td><td>N/A</td><td>The expansion card riser enables you to connect PCI Express expansion cards. For more information , see the Expansion card installation guidelines section.</td></tr><tr><td>4</td><td>PCIe expansion card riser 2</td><td>N/A</td><td>The expansion card riser enables you to connect PCI Express expansion cards. For more information , see www.dell.com/poweredgemanuals section.</td></tr><tr><td>5</td><td>Power supply unit (PSU2)</td><td></td><td>For more information about the PSU configurations, see www.dell.com/poweredgemanuals section.</td></tr></table> Installation and Service Manual, 14.	Item	Ports, panels, or slots	Icon	Description	1	BOSS module	N/A	Insert BOSS blank when BOSS module is not used.	2	Power supply unit (PSU1)		For more information about the PSU configurations, see www.dell.com/poweredgemanuals section.	Item	Ports, panels, or slots	Icon	Description	3	PCIe expansion card riser 1	N/A	The expansion card riser enables you to connect PCI Express expansion cards. For more information , see the Expansion card installation guidelines section.	4	PCIe expansion card riser 2	N/A	The expansion card riser enables you to connect PCI Express expansion cards. For more information , see www.dell.com/poweredgemanuals section.	5	Power supply unit (PSU2)		For more information about the PSU configurations, see www.dell.com/poweredgemanuals section.
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
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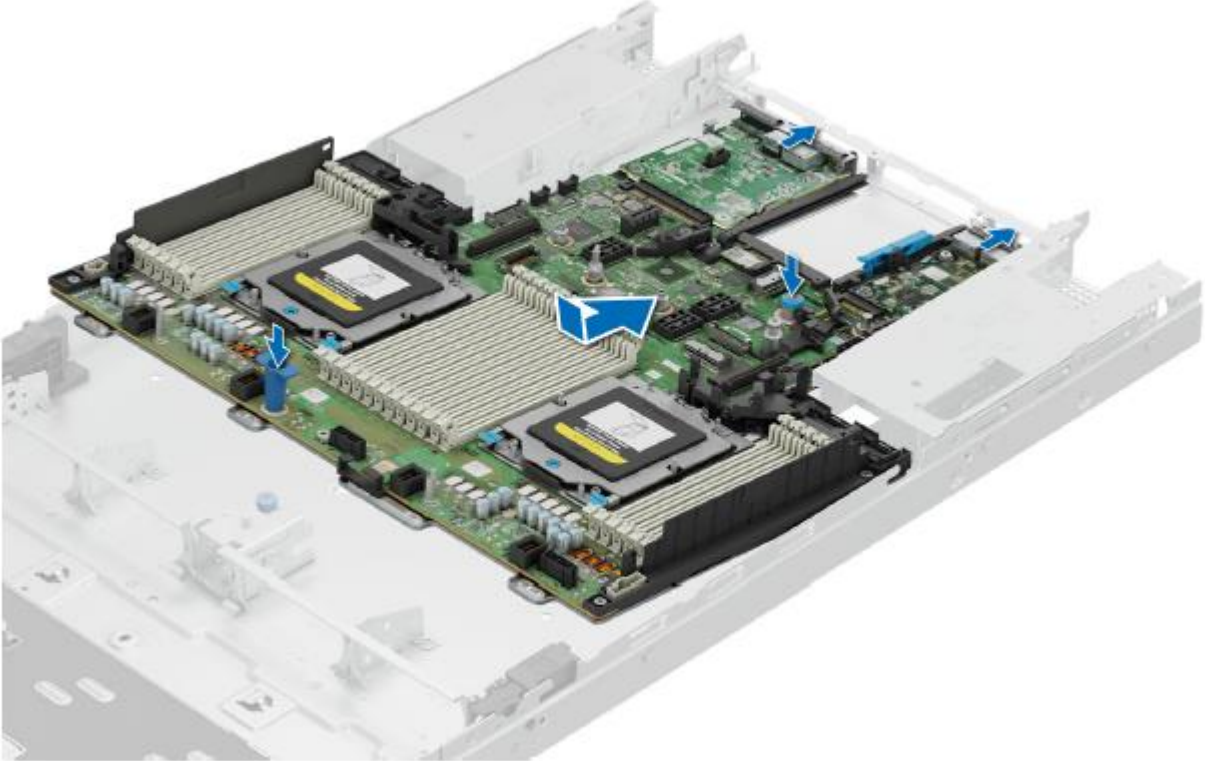
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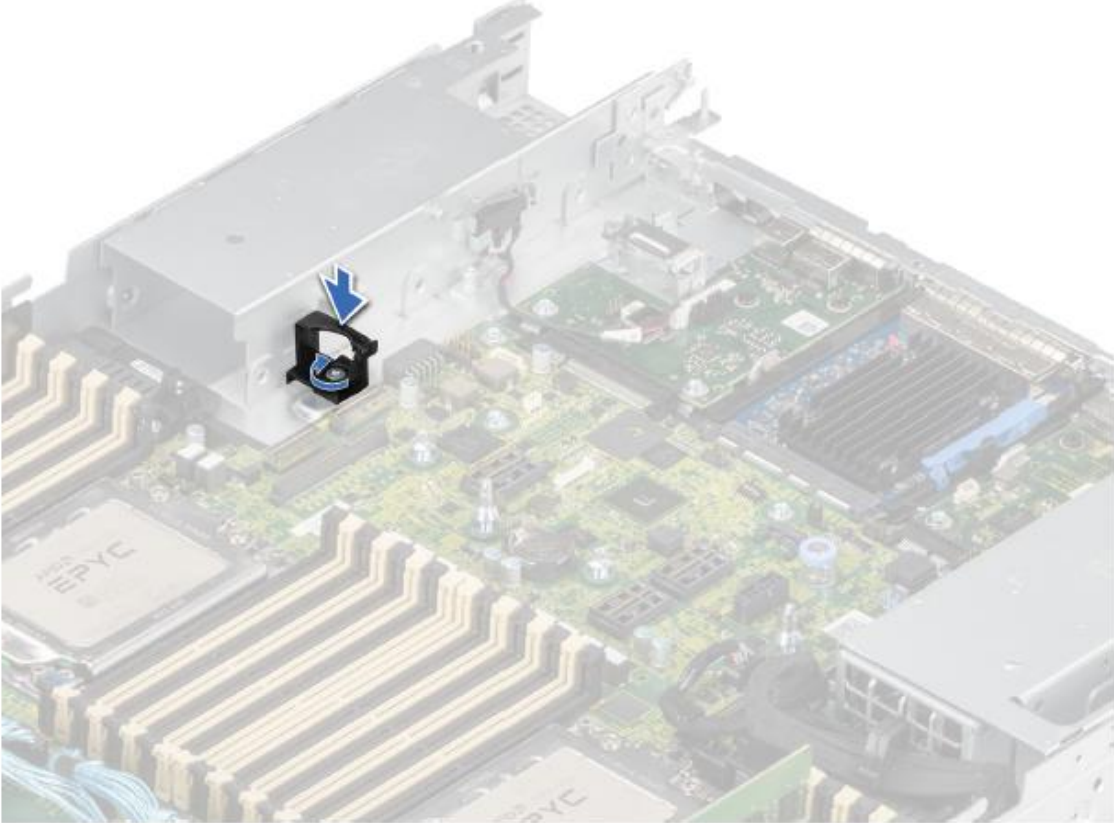
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Installation and Service Manual, 109. Installation and Service Manual, 110.

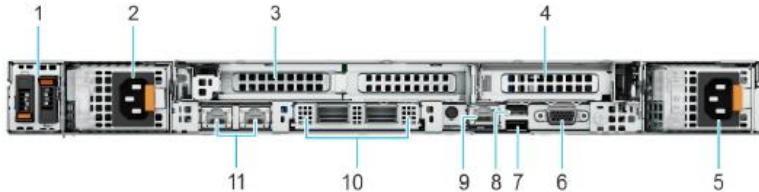
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	 Installation and Service Manual, 111.

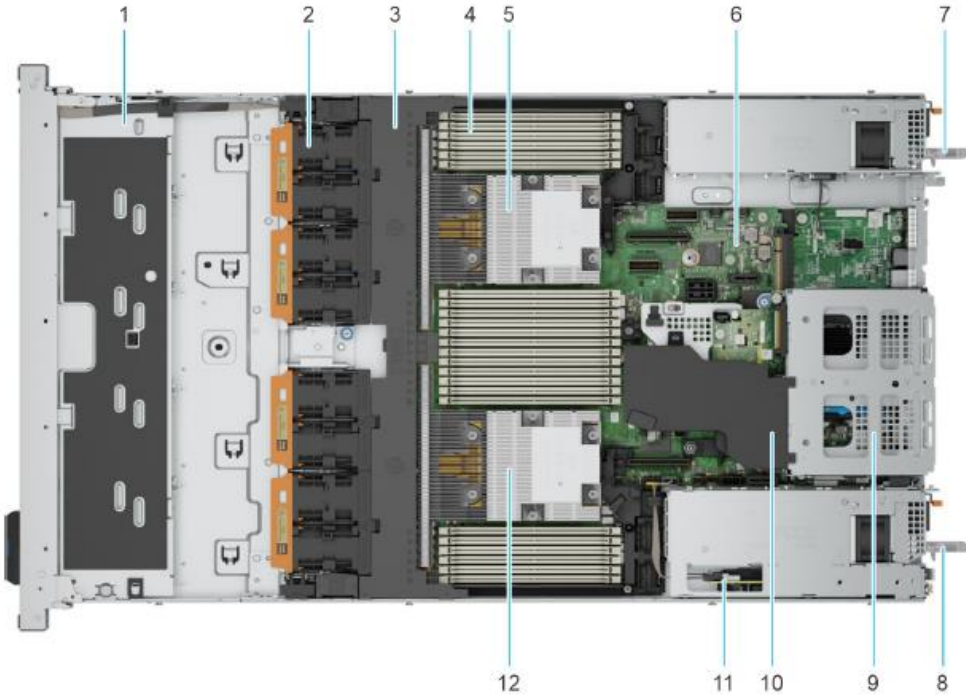
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 194. Installing a power supply unit Installation and Service Manual, 197.

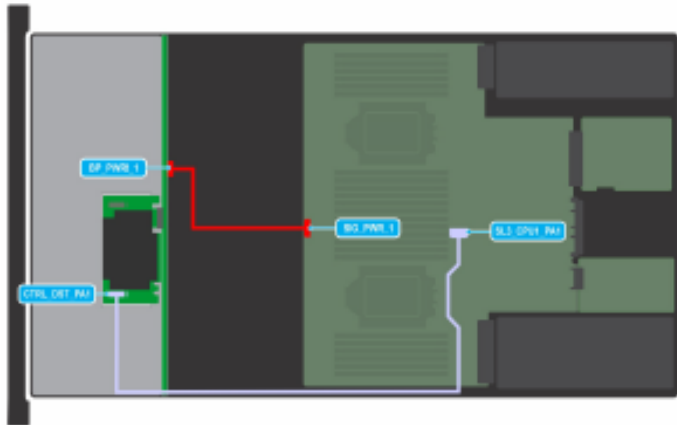
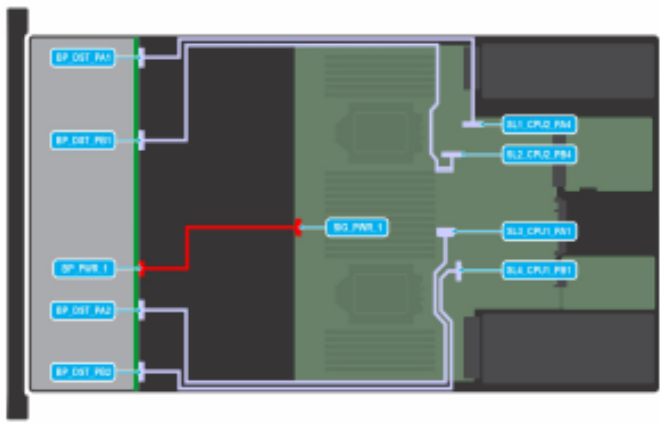
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	 Installation and Service Manual, 201.

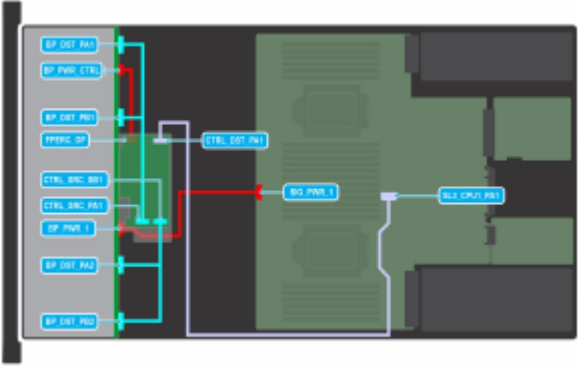
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 208. <i>See</i> 1[d].
[1f] wherein the plurality of power source units are each positioned further downstream of the cooling air from the plurality of	The plurality of power source units in the Accused Dell '265 Products are each positioned further downstream of the cooling air from the plurality of memory devices such that the cooling air passing through one of the memory devices passes into one of the power source units. <i>See, e.g.,:</i>

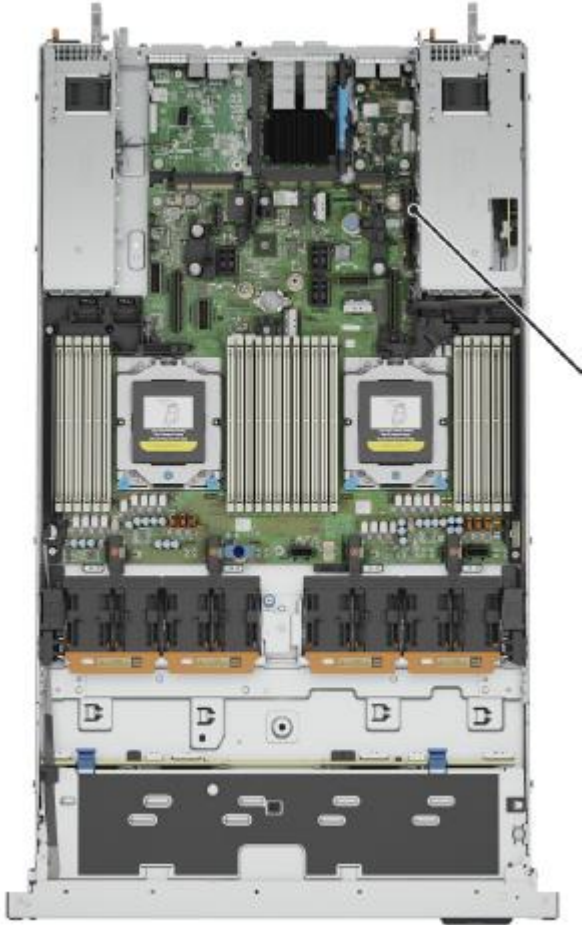
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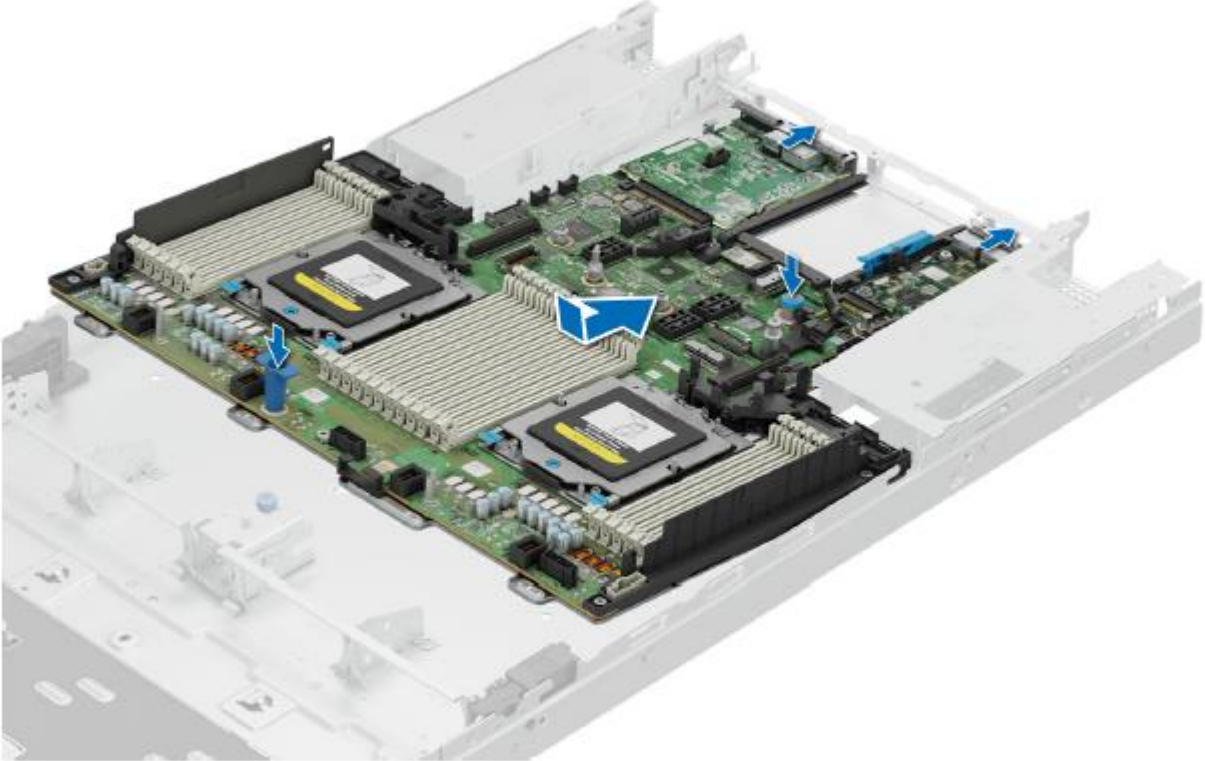
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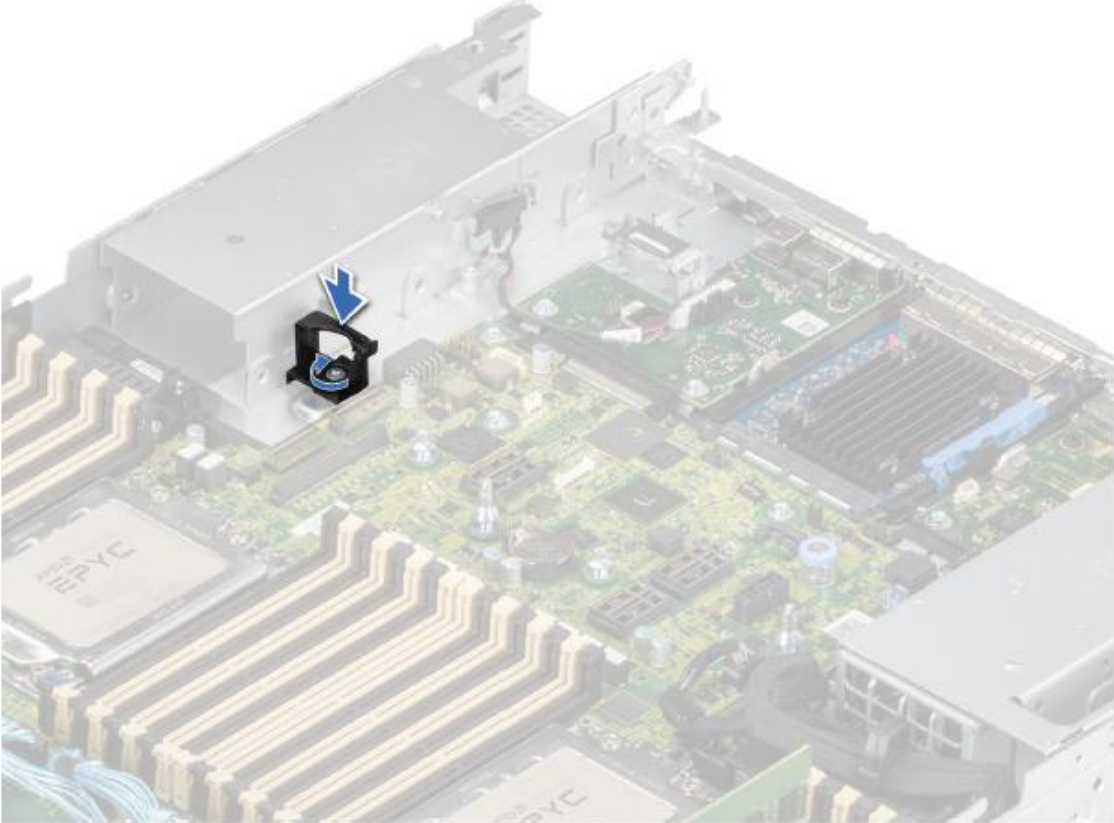
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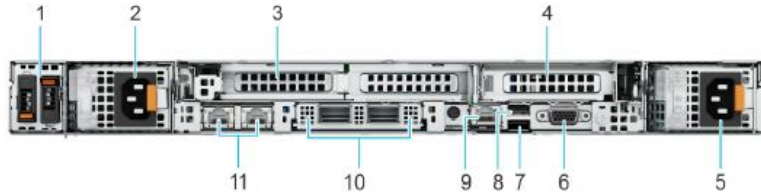
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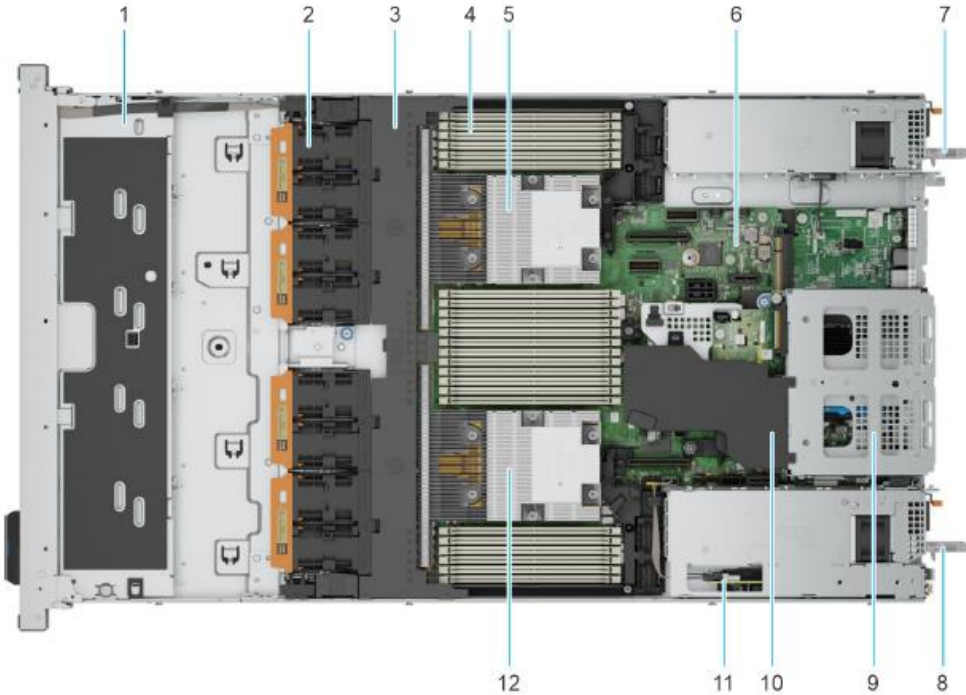
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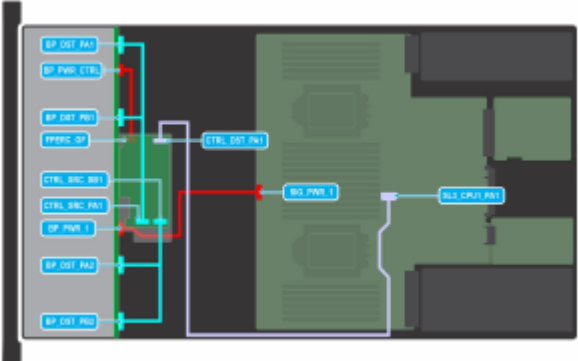
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	 Installation and Service Manual, 208. <i>See</i> 1[e].
[1g] wherein the plurality of power source units are each positioned not to be aligned linearly with the CPU in the	The power source units in the Accused Dell '265 Products are each positioned not to be aligned linearly with the CPU in the longitudinal direction of the housing. <i>See, e.g.,:</i>

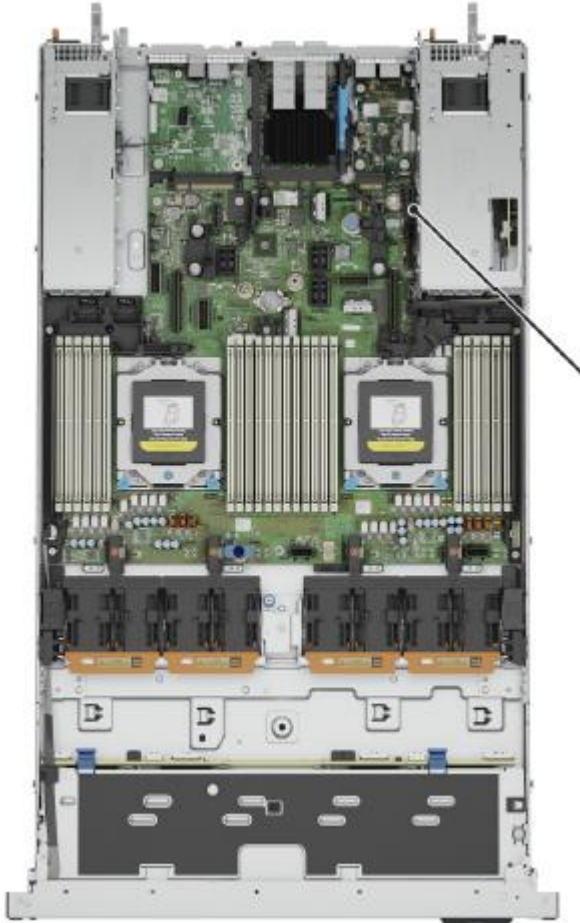
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))																												
longitudinal direction of the housing.	Rear view of the system  Figure 6. Rear view of the system R6625 Table 6. R6625 system rear view features <table><tr><th>Item</th><th>Ports, panels, or slots</th><th>Icon</th><th>Description</th></tr><tr><td>1</td><td>BOSS module</td><td>N/A</td><td>Insert BOSS blank when BOSS module is not used.</td></tr><tr><td>2</td><td>Power supply unit (PSU1)</td><td></td><td>For more information about the PSU configurations, see www.dell.com/poweredgemanuals section.</td></tr></table> Installation and Service Manual, 13. Table 6. R6625 system rear view features (continued) <table><tr><th>Item</th><th>Ports, panels, or slots</th><th>Icon</th><th>Description</th></tr><tr><td>3</td><td>PCIe expansion card riser 1</td><td>N/A</td><td>The expansion card riser enables you to connect PCI Express expansion cards. For more information , see the Expansion card installation guidelines section.</td></tr><tr><td>4</td><td>PCIe expansion card riser 2</td><td>N/A</td><td>The expansion card riser enables you to connect PCI Express expansion cards. For more information , see www.dell.com/poweredgemanuals section.</td></tr><tr><td>5</td><td>Power supply unit (PSU2)</td><td></td><td>For more information about the PSU configurations, see www.dell.com/poweredgemanuals section.</td></tr></table> Installation and Service Manual, 14.	Item	Ports, panels, or slots	Icon	Description	1	BOSS module	N/A	Insert BOSS blank when BOSS module is not used.	2	Power supply unit (PSU1)		For more information about the PSU configurations, see www.dell.com/poweredgemanuals section.	Item	Ports, panels, or slots	Icon	Description	3	PCIe expansion card riser 1	N/A	The expansion card riser enables you to connect PCI Express expansion cards. For more information , see the Expansion card installation guidelines section.	4	PCIe expansion card riser 2	N/A	The expansion card riser enables you to connect PCI Express expansion cards. For more information , see www.dell.com/poweredgemanuals section.	5	Power supply unit (PSU2)		For more information about the PSU configurations, see www.dell.com/poweredgemanuals section.
Item	Ports, panels, or slots	Icon	Description																										
1	BOSS module	N/A	Insert BOSS blank when BOSS module is not used.																										
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Item	Ports, panels, or slots	Icon	Description																										
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4	PCIe expansion card riser 2	N/A	The expansion card riser enables you to connect PCI Express expansion cards. For more information , see www.dell.com/poweredgemanuals section.																										
5	Power supply unit (PSU2)		For more information about the PSU configurations, see www.dell.com/poweredgemanuals section.																										

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))		
	Inside the system  Figure 10. Inside view of the PowerEdge R6625. <table border="0"> <tr> <td data-bbox="604 1133 919 1317"> 1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module </td> <td data-bbox="1230 1133 1549 1317"> 2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1 </td> </tr> </table> Installation and Service Manual, 17.	1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module	2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1
1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module	2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1		

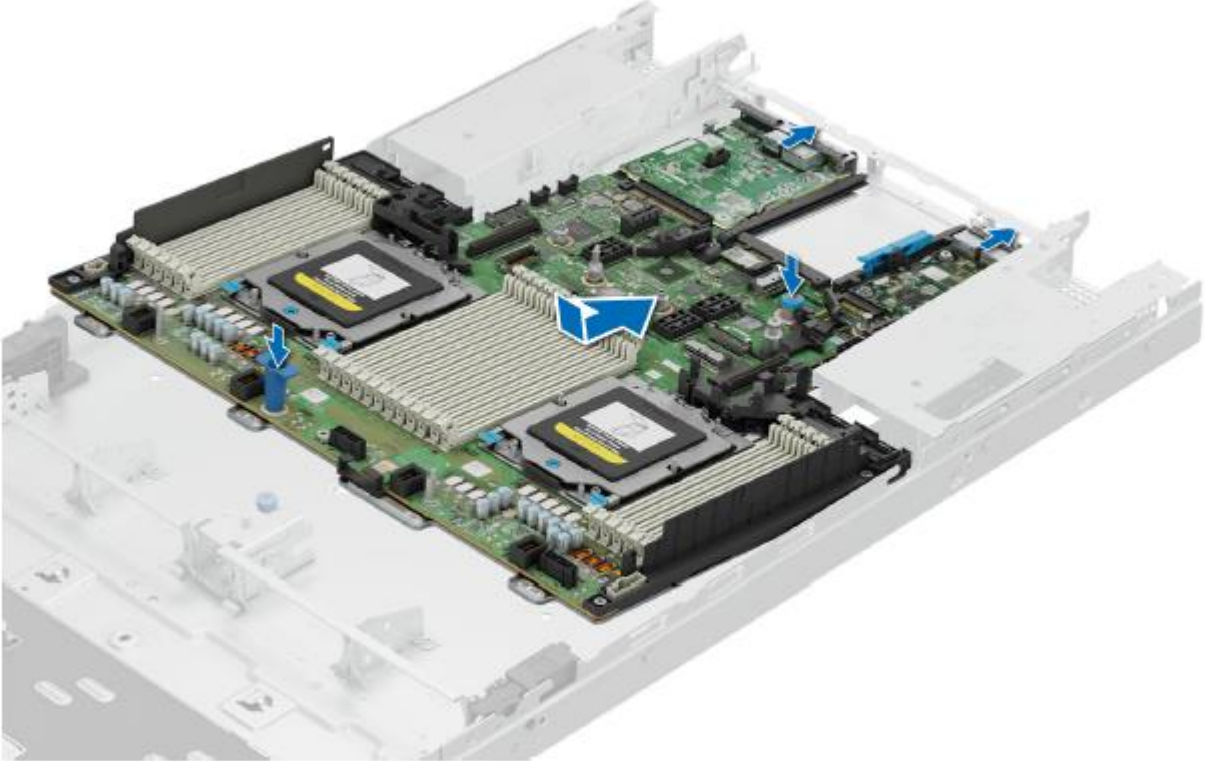
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
	Figure 11. Inside view of the PowerEdge R6625. <table border="0"> <tr> <td>1. BOSS Module</td> <td>2. Rear E3.S drive module</td> </tr> <tr> <td>3. E3.S front PERC</td> <td>4. Information tag</td> </tr> <tr> <td>5. Fans</td> <td>6. Fan connector</td> </tr> <tr> <td>7. Processor and Heat sink</td> <td>8. Riser 3</td> </tr> <tr> <td>9. NIC</td> <td>10. System board</td> </tr> <tr> <td>11. PSU</td> <td></td> </tr> </table> Installation and Service Manual, 18.	1. BOSS Module	2. Rear E3.S drive module	3. E3.S front PERC	4. Information tag	5. Fans	6. Fan connector	7. Processor and Heat sink	8. Riser 3	9. NIC	10. System board	11. PSU	
1. BOSS Module	2. Rear E3.S drive module												
3. E3.S front PERC	4. Information tag												
5. Fans	6. Fan connector												
7. Processor and Heat sink	8. Riser 3												
9. NIC	10. System board												
11. PSU													

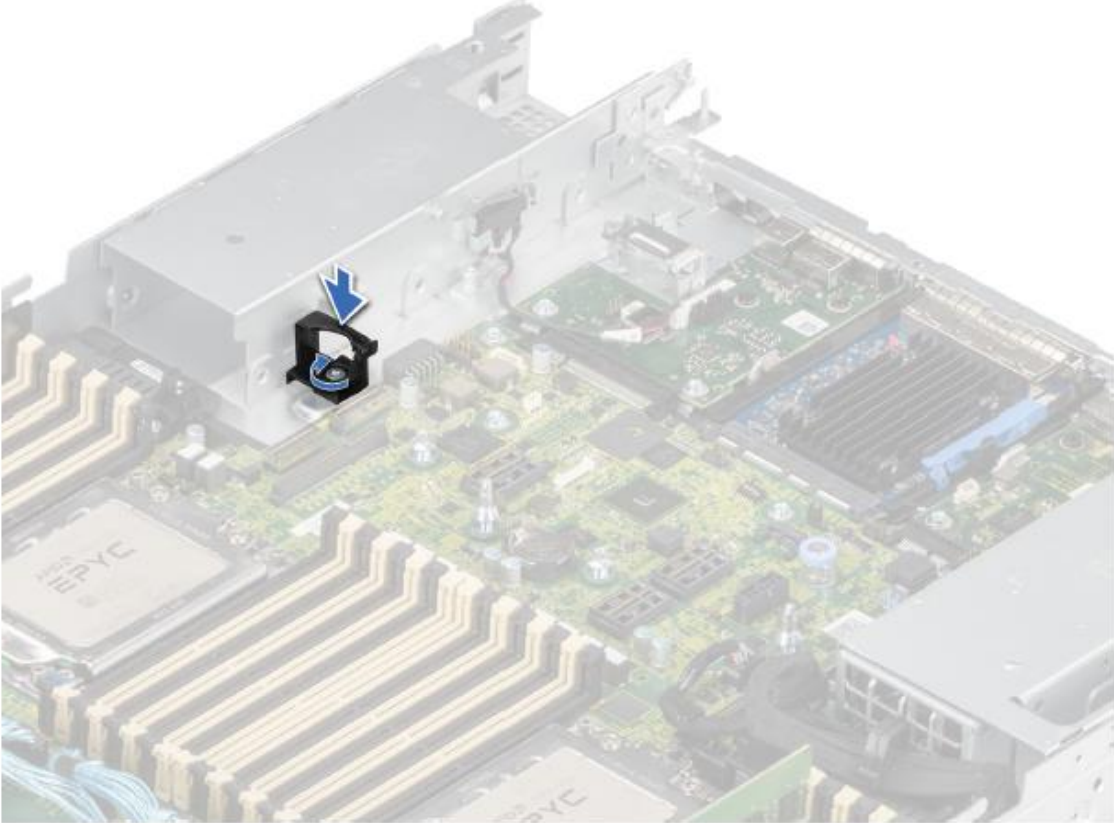
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	This diagram shows a side view of a server rack. On the left, a vertical strip contains labels 'BP PWR. 1' and 'CTRL. DIST. PWR.'. A red line originates from 'BP PWR. 1', extends horizontally to the right, and then turns vertically down to connect to 'BIO PWR. 1'. From 'BIO PWR. 1', another red line extends horizontally to the right, connecting to 'BL3 CPU PWR.'. The background shows the internal components of the server rack. Installation and Service Manual, 109. This diagram shows a side view of a server rack. On the left, a vertical strip contains labels 'BP DIST. PWR.', 'BP DIST. PWR.', 'BP PWR. 1', 'BP DIST. PWR.', and 'BP DIST. PWR.'. A red line originates from 'BP PWR. 1', extends horizontally to the right, and then turns vertically down to connect to 'BIO PWR. 1'. From 'BIO PWR. 1', another red line extends horizontally to the right, connecting to 'BL3 CPU PWR.'. On the right side, there are additional labels: 'BL1 CPU PWR.', 'BL2 CPU PWR.', 'BL3 CPU PWR.', and 'BL4 CPU PWR.'. The background shows the internal components of the server rack. Installation and Service Manual, 110.

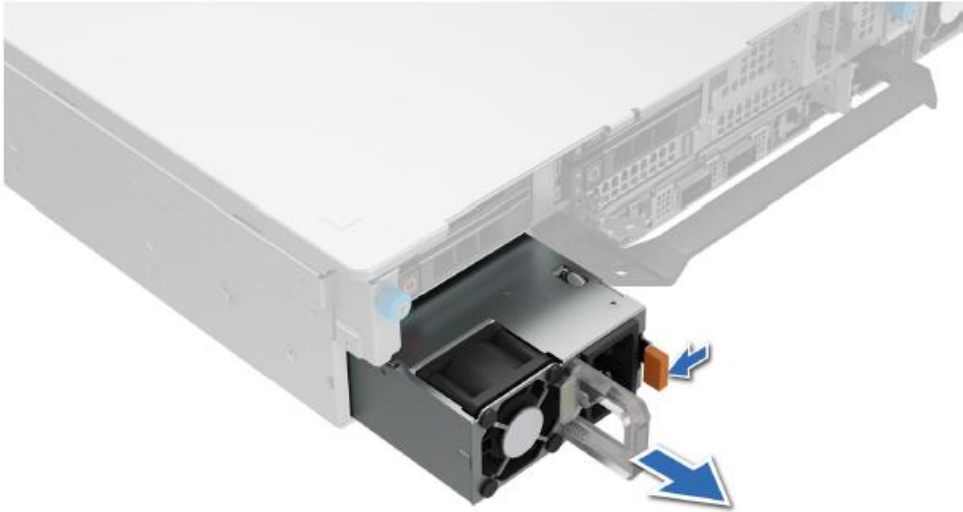
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 111.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188.

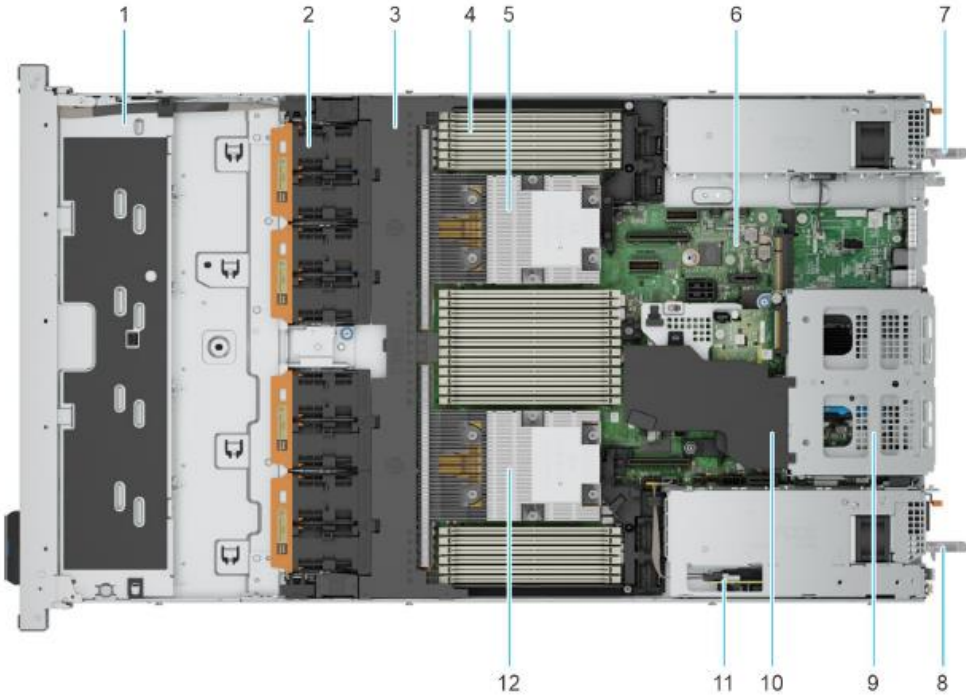
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 194. Installing a power supply unit Installation and Service Manual, 197.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 201.

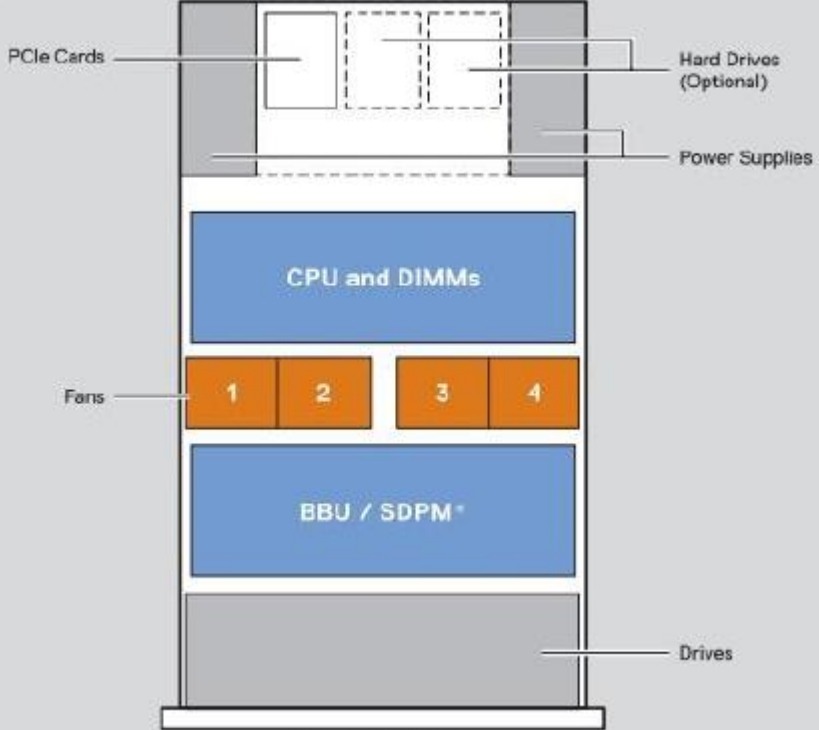
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 208. <i>See</i> 1[f].
[2] The electronic device according to claim 1, wherein the plurality of power source units are each arranged to be pulled out	The plurality of power source units in the Accused Dell '265 Products are each arranged to be pulled out from the rear face of the housing. <i>See, e.g.,:</i>

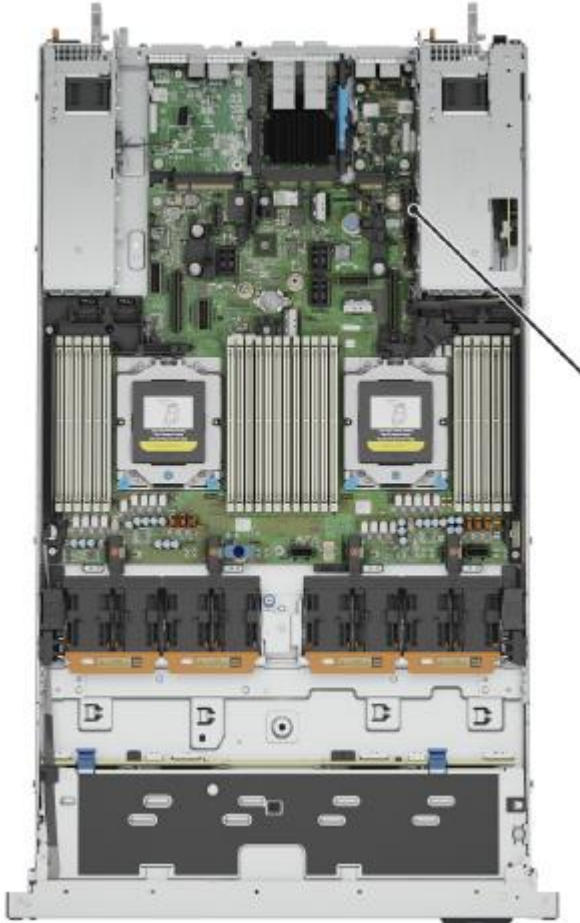
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
from the rear face of the housing.	Removing a power supply unit Prerequisites CAUTION: The system requires one power supply unit (PSU) for normal operation. On power-redundant systems, remove and replace only one PSU at a time in a system that is powered on. 1. Follow the safety guidelines listed in the Safety instructions. 2. Disconnect the power cable from the power outlet and from the PSU that you intend to remove. 3. Remove the cable from the strap on the PSU handle. 4. Unlatch and lift or remove the optional cable management accessory if it interferes with the PSU removal. NOTE: For information about the cable management when the PSU is removed or installed while the system is in a rack, see the system's cable management arm documentation at poweredge manuals. Installation and Service Manual, 196. Steps Press the release latch and holding the PSU handle, slide the PSU out of the bay.  Figure 193. Removing a power supply unit

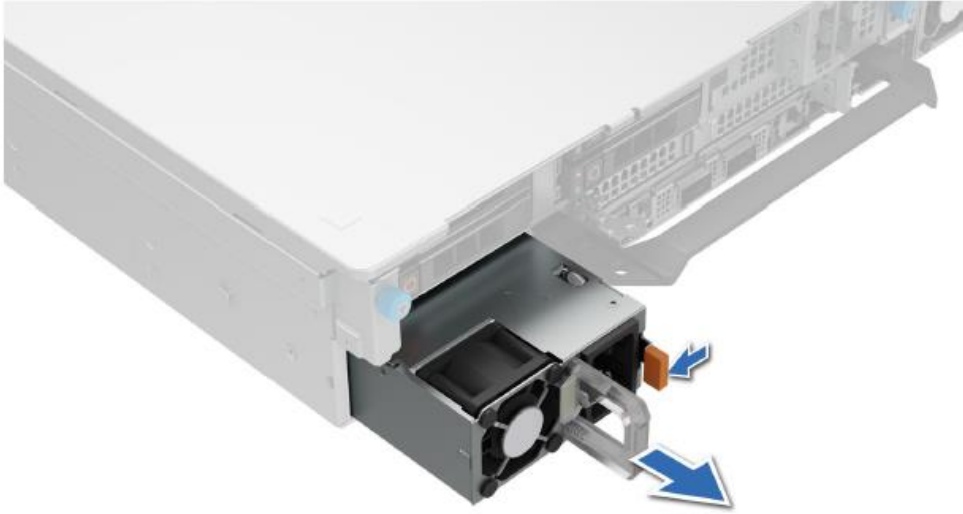
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Installation and Service Manual, 196. See claim 1.
[3] The electronic device according to claim 1, wherein the plurality of power source units are each kept inside a power box, comprising a top board and a pair of side boards, and positioned close to each of side faces of the housing so as not to directly interfere with the cooling air flown downwardly from the plurality of electronic parts.	The plurality of power source units in the Accused Dell '265 Products are each kept inside a power box, comprising a top board and a pair of side boards, and positioned close to each of side faces of the housing so as not to directly interfere with the cooling air flown downwardly from the plurality of electronic parts. See, e.g.,:

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))		
	Inside the system  Figure 10. Inside view of the PowerEdge R6625. <table> <tr> <td data-bbox="604 1133 919 1317"> 1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module </td> <td data-bbox="1230 1133 1549 1317"> 2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1 </td> </tr> </table> Installation and Service Manual, 17.	1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module	2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1
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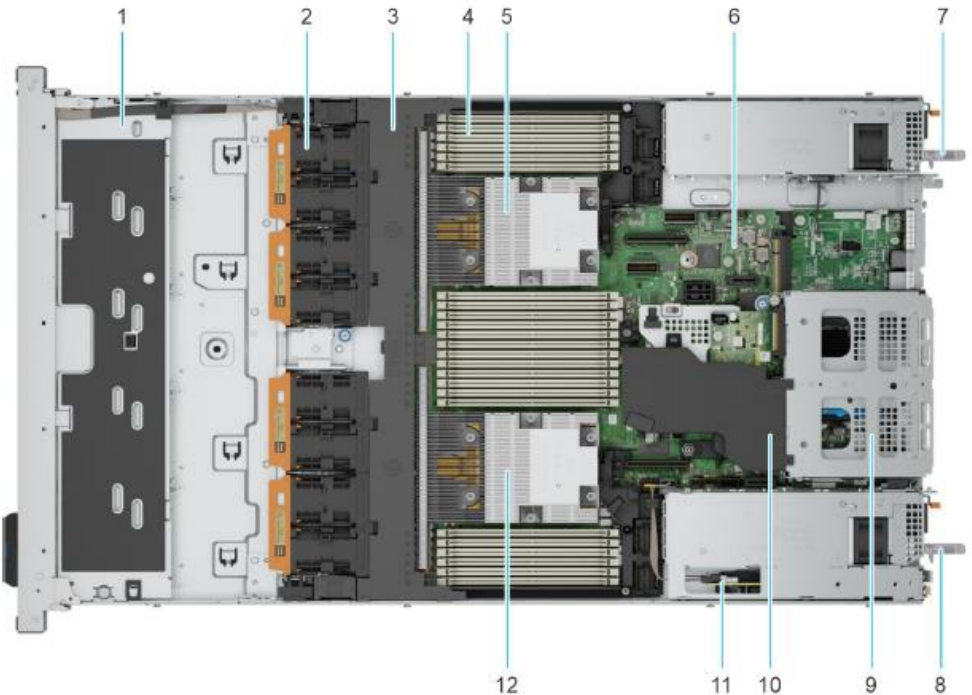
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
	Figure 11. Inside view of the PowerEdge R6625. <table> <tbody> <tr> <td data-bbox="598 1198 735 1221">1. BOSS Module</td> <td data-bbox="1102 1198 1312 1221">2. Rear E3.S drive module</td> </tr> <tr> <td data-bbox="598 1226 735 1248">3. E3.S front PERC</td> <td data-bbox="1102 1226 1312 1248">4. Information tag</td> </tr> <tr> <td data-bbox="598 1253 735 1276">5. Fans</td> <td data-bbox="1102 1253 1312 1276">6. Fan connector</td> </tr> <tr> <td data-bbox="598 1281 735 1304">7. Processor and Heat sink</td> <td data-bbox="1102 1281 1312 1304">8. Riser 3</td> </tr> <tr> <td data-bbox="598 1308 735 1331">9. NIC</td> <td data-bbox="1102 1308 1312 1331">10. System board</td> </tr> <tr> <td data-bbox="598 1336 735 1359">11. PSU</td> <td></td> </tr> </tbody> </table> Installation and Service Manual, 18.	1. BOSS Module	2. Rear E3.S drive module	3. E3.S front PERC	4. Information tag	5. Fans	6. Fan connector	7. Processor and Heat sink	8. Riser 3	9. NIC	10. System board	11. PSU	
1. BOSS Module	2. Rear E3.S drive module												
3. E3.S front PERC	4. Information tag												
5. Fans	6. Fan connector												
7. Processor and Heat sink	8. Riser 3												
9. NIC	10. System board												
11. PSU													

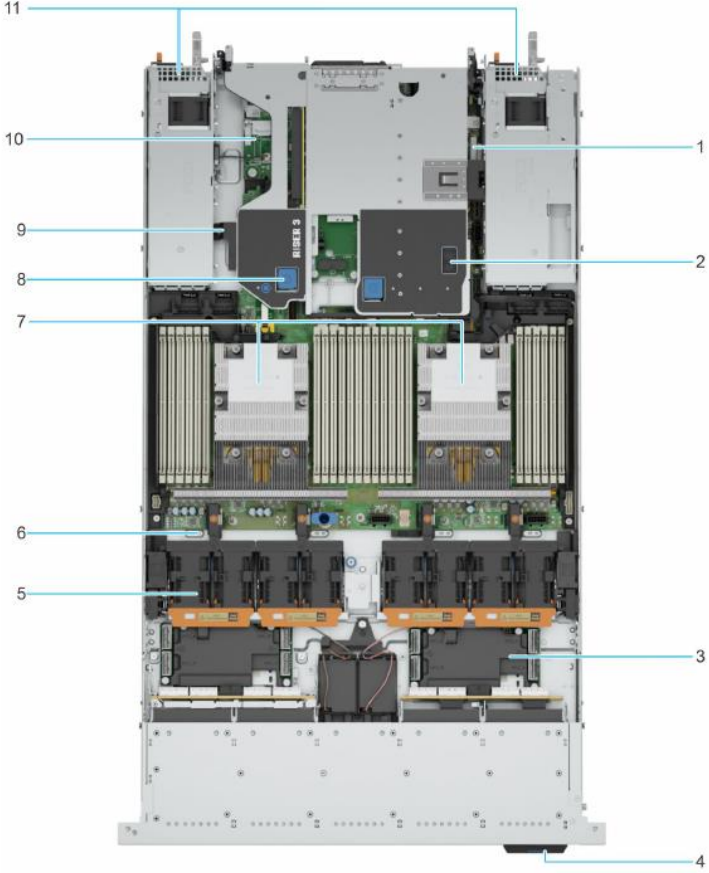
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 20.

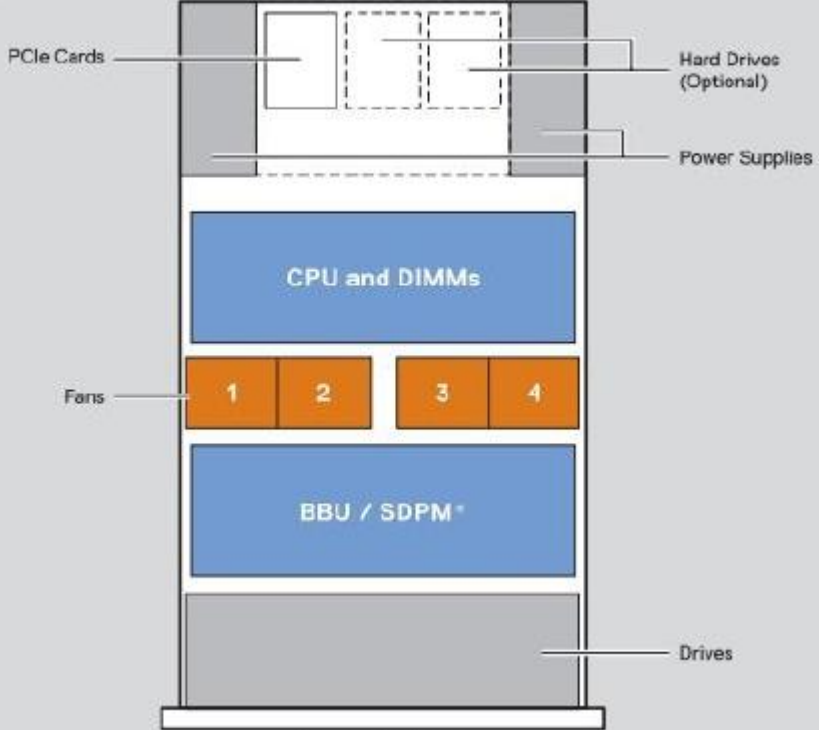
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Steps Press the release latch and holding the PSU handle, slide the PSU out of the bay.  Figure 193. Removing a power supply unit Installation and Service Manual, 196.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 194. Installing a power supply unit Installation and Service Manual, 197. See claim 1.
[4pre] A cooling structure of an electronic device comprising a plurality of fans causing cooling air to flow downstream, a central processing unit (CPU), a plurality of memory devices adjacent to the CPU, and a plurality of power source units, all of which are	The Accused Dell '265 Products include a cooling structure comprising a plurality of fans causing cooling air to flow downstream, a central processing unit (CPU), a plurality of memory devices adjacent to the CPU, and a plurality of power source units, all of which are arranged along a flowing direction of the cooling air corresponding to a longitudinal direction in a housing. <i>See, e.g.,:</i>

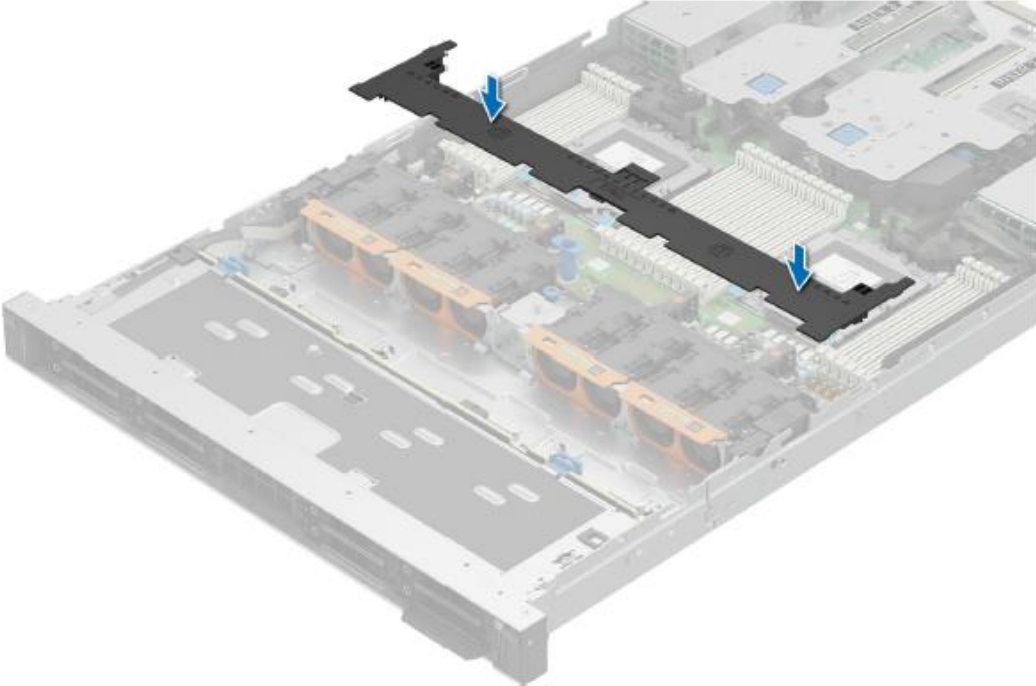
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
arranged along a flowing direction of the cooling air corresponding to a longitudinal direction in a housing,	Inside the system  Figure 10. Inside view of the PowerEdge R6625. <table border="0"> <tbody> <tr> <td>1. Front Storage cover</td><td>2. Fans</td></tr> <tr> <td>3. Air shroud</td><td>4. Memory</td></tr> <tr> <td>5. Processor 2 and Heat sink 2</td><td>6. System Board</td></tr> <tr> <td>7. PSU 2</td><td>8. PSU 1</td></tr> <tr> <td>9. NIC</td><td>10. Rear drive module air shroud</td></tr> <tr> <td>11. BOSS Module</td><td>12. Processor 1 and Heat sink 1</td></tr> </tbody> </table> Installation and Service Manual, 17.	1. Front Storage cover	2. Fans	3. Air shroud	4. Memory	5. Processor 2 and Heat sink 2	6. System Board	7. PSU 2	8. PSU 1	9. NIC	10. Rear drive module air shroud	11. BOSS Module	12. Processor 1 and Heat sink 1
1. Front Storage cover	2. Fans												
3. Air shroud	4. Memory												
5. Processor 2 and Heat sink 2	6. System Board												
7. PSU 2	8. PSU 1												
9. NIC	10. Rear drive module air shroud												
11. BOSS Module	12. Processor 1 and Heat sink 1												

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 11. Inside view of the PowerEdge R6625. 1. BOSS Module 2. Rear E3.S drive module 3. E3.S front PERC 4. Information tag 5. Fans 6. Fan connector 7. Processor and Heat sink 8. Riser 3 9. NIC 10. System board 11. PSU Installation and Service Manual, 18.

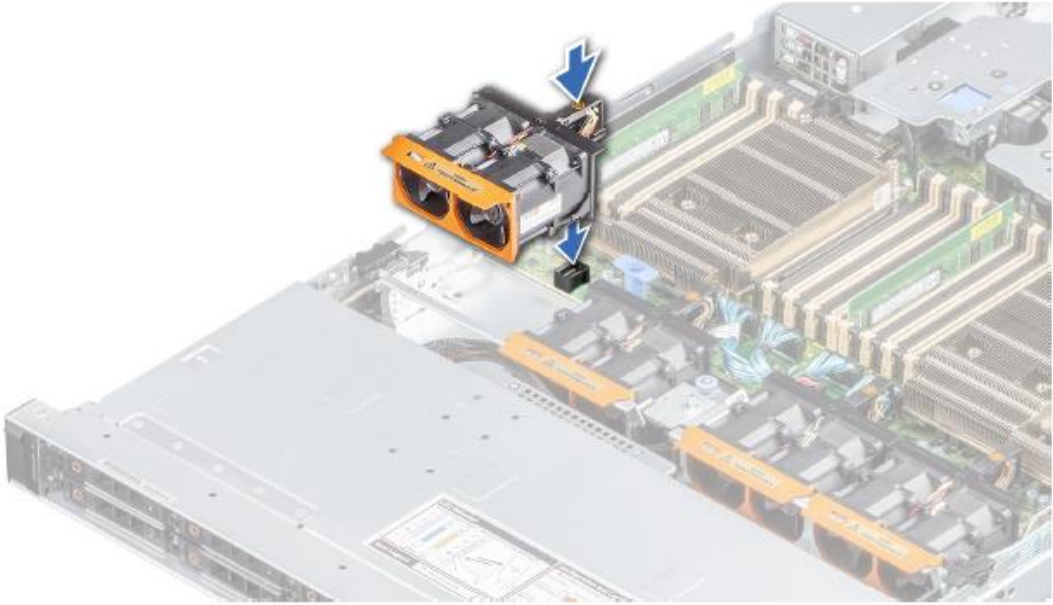
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 20.

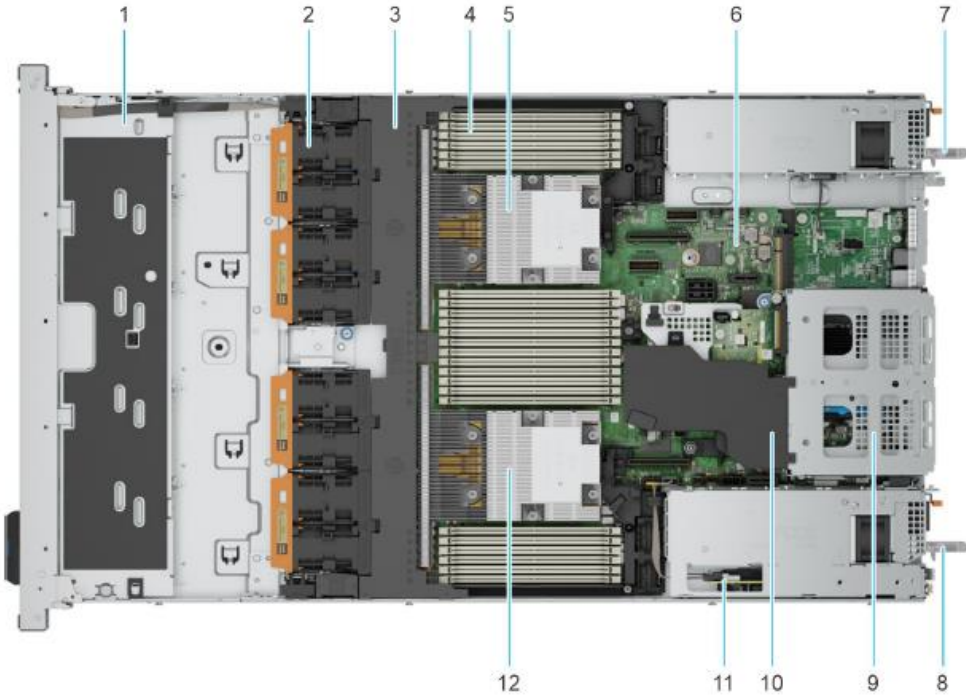
Accused Instrumentalities And Where Each Claim Element Is Found³
(P.R. 3-1(b)-(c))

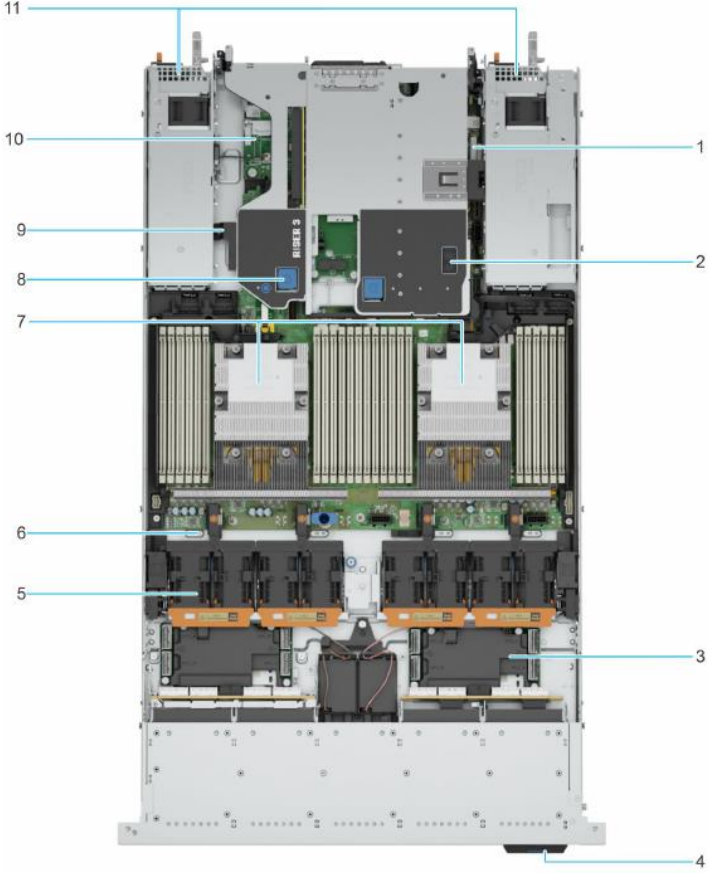


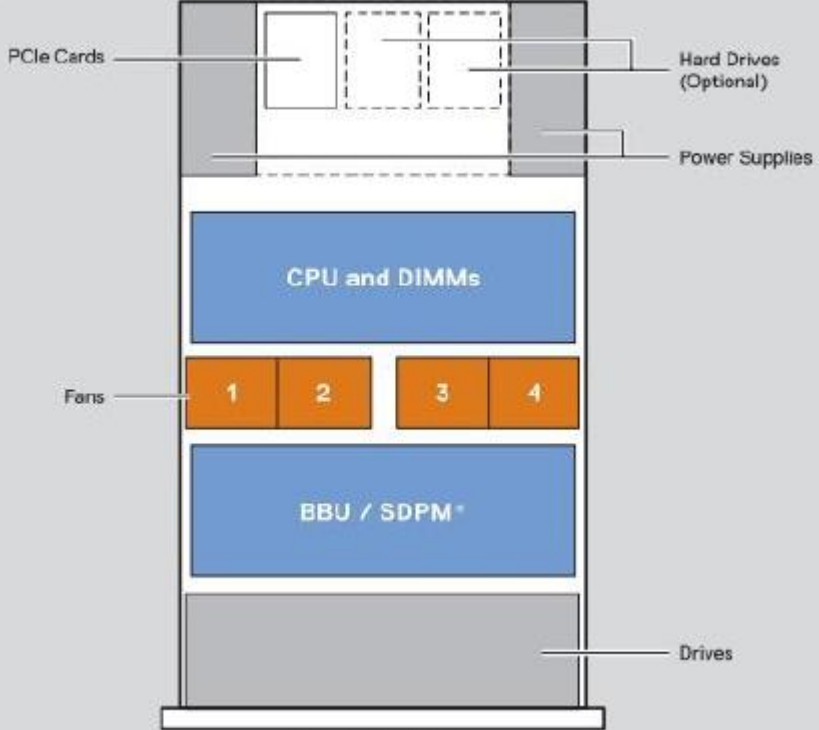
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 59. Installing the air shroud Installation and Service Manual, 93.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 61. Removing a cooling fan module Installation and Service Manual, 94.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 62. Installing a cooling fan module Installation and Service Manual, 95.
[4a] wherein the CPU is arranged downstream of the plurality of fans and positioned to allow the cooling air to directly flow therethrough,	The CPU in the Accused Dell '265 Products is arranged downstream of the plurality of fans and positioned to allow the cooling air to directly flow therethrough. <i>See, e.g.,:</i>

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
	Inside the system  Figure 10. Inside view of the PowerEdge R6625. <table border="0"> <tr> <td>1. Front Storage cover</td> <td>2. Fans</td> </tr> <tr> <td>3. Air shroud</td> <td>4. Memory</td> </tr> <tr> <td>5. Processor 2 and Heat sink 2</td> <td>6. System Board</td> </tr> <tr> <td>7. PSU 2</td> <td>8. PSU 1</td> </tr> <tr> <td>9. NIC</td> <td>10. Rear drive module air shroud</td> </tr> <tr> <td>11. BOSS Module</td> <td>12. Processor 1 and Heat sink 1</td> </tr> </table> Installation and Service Manual, 17.	1. Front Storage cover	2. Fans	3. Air shroud	4. Memory	5. Processor 2 and Heat sink 2	6. System Board	7. PSU 2	8. PSU 1	9. NIC	10. Rear drive module air shroud	11. BOSS Module	12. Processor 1 and Heat sink 1
1. Front Storage cover	2. Fans												
3. Air shroud	4. Memory												
5. Processor 2 and Heat sink 2	6. System Board												
7. PSU 2	8. PSU 1												
9. NIC	10. Rear drive module air shroud												
11. BOSS Module	12. Processor 1 and Heat sink 1												

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 11. Inside view of the PowerEdge R6625. 1. BOSS Module 2. Rear E3.S drive module 3. E3.S front PERC 4. Information tag 5. Fans 6. Fan connector 7. Processor and Heat sink 8. Riser 3 9. NIC 10. System board 11. PSU Installation and Service Manual, 18.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 20.

'265 Patent Claim²
(P.R. 3-1(a))

Accused Instrumentalities And Where Each Claim Element Is Found³
(P.R. 3-1(b)-(c))

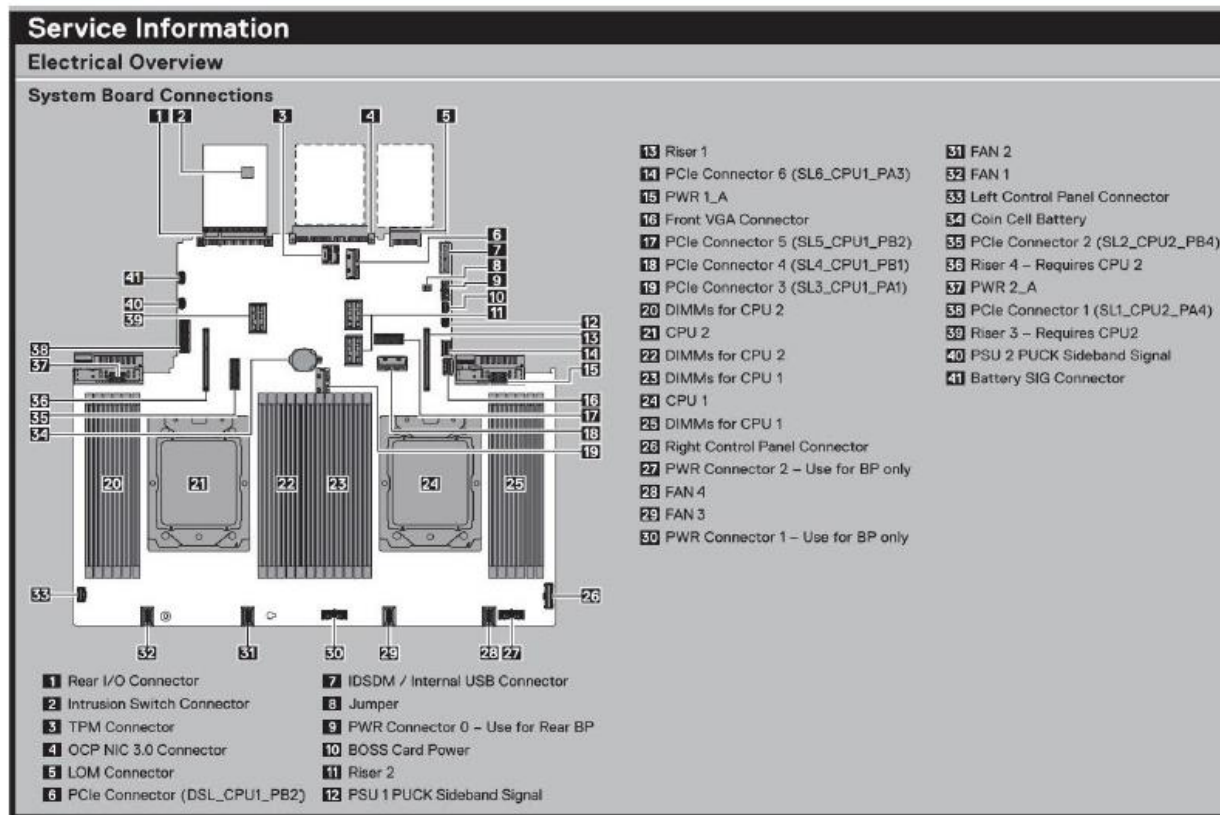
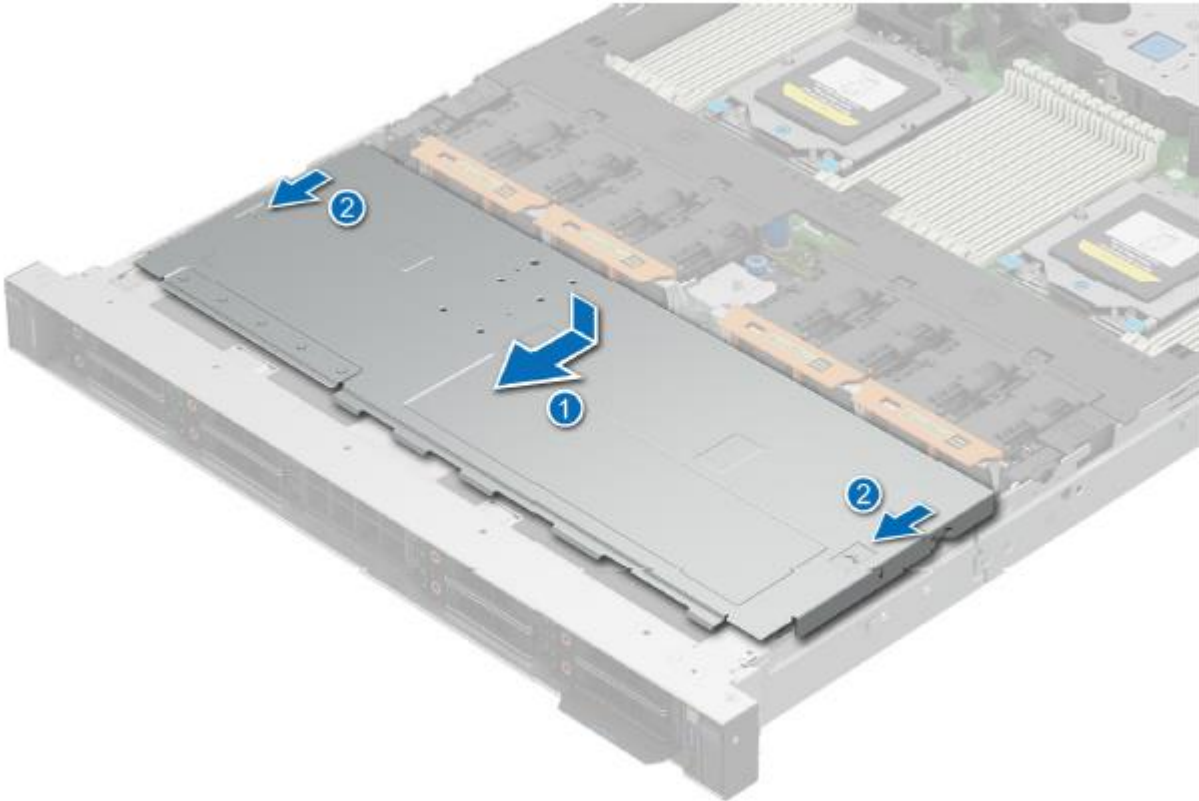
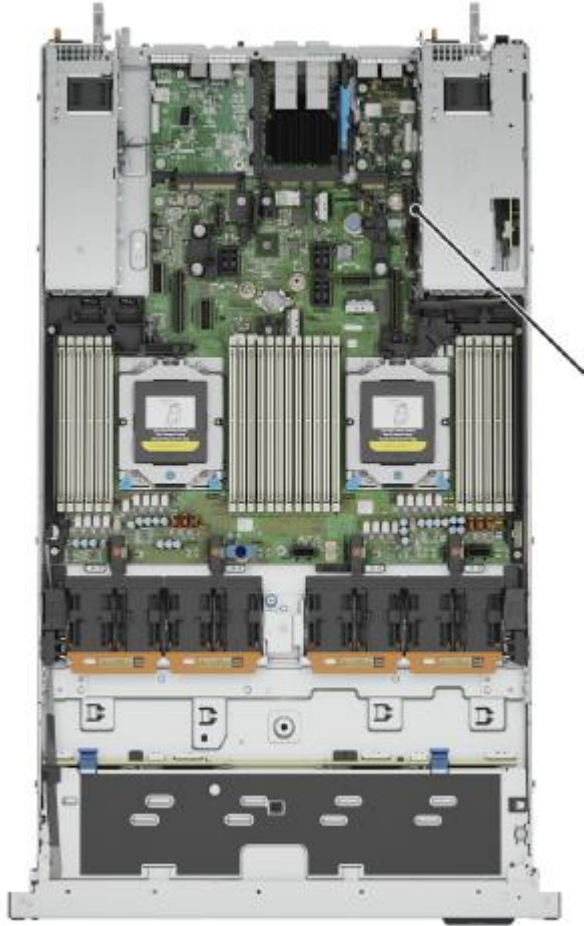
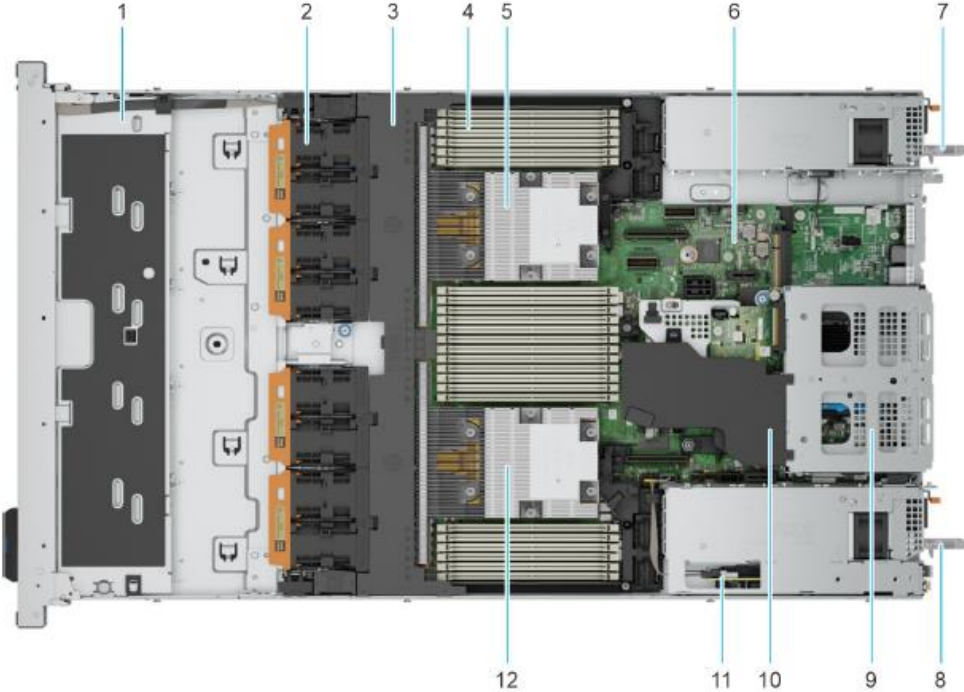


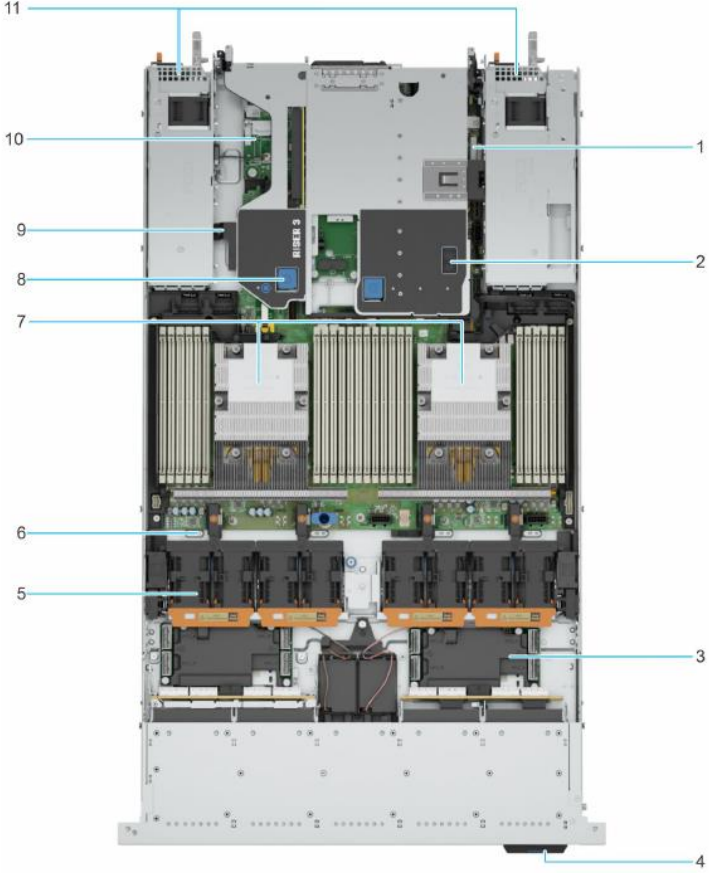
Figure 15. Electrical information
Installation and Service Manual, 21.

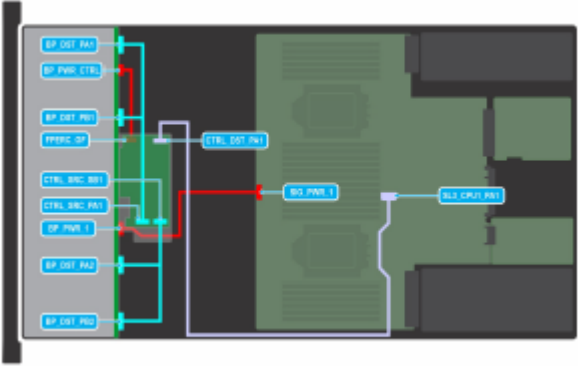
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 84.

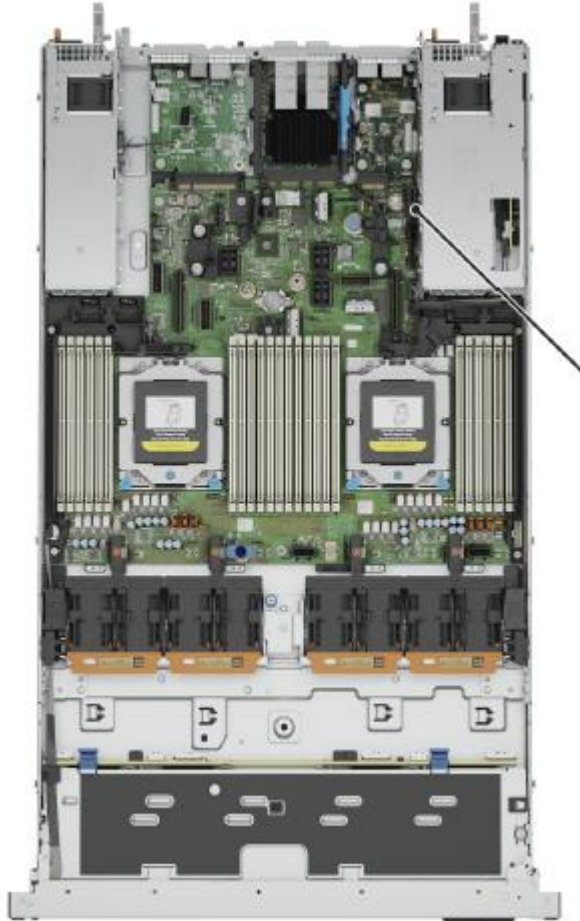
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188. See 4[pre].
[4b] wherein the plurality of power source units are each positioned further	The plurality of power source units in the Accused Dell '265 Products are each positioned further downstream of the cooling air from the plurality of memory devices such that the cooling air passing through one of the memory devices passes into one of the power source units.

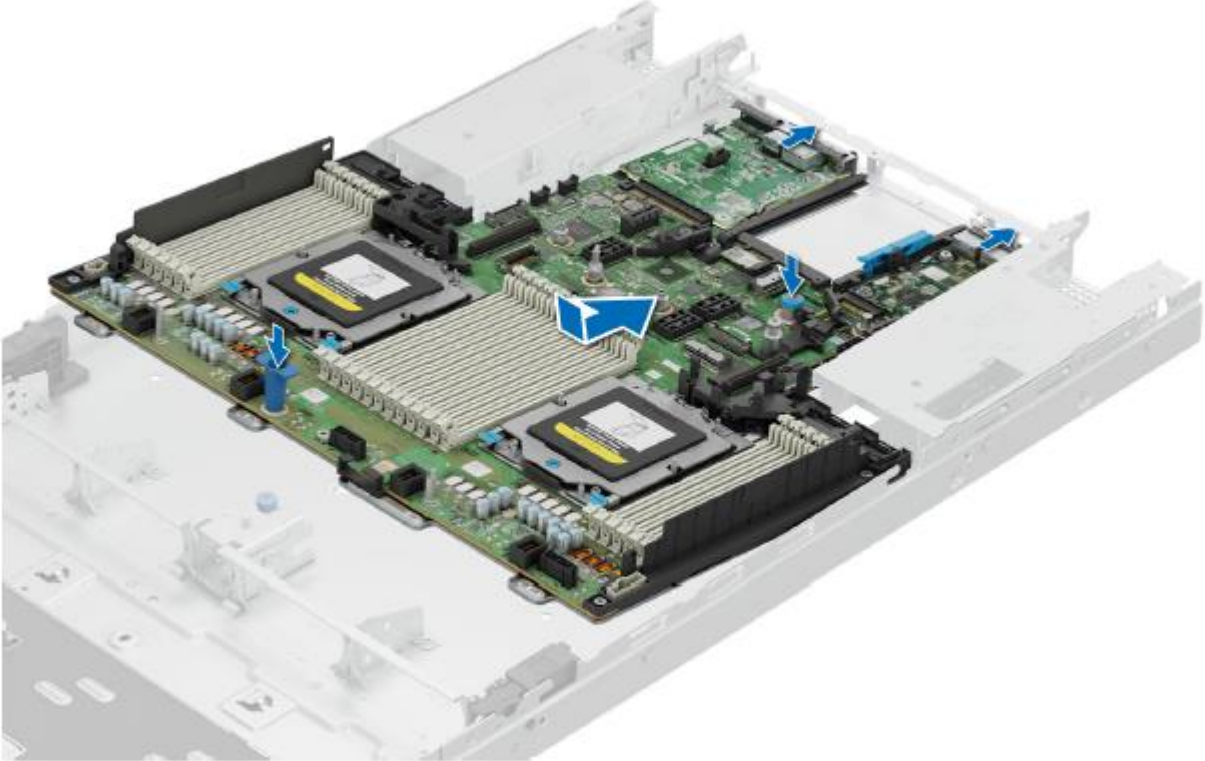
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
downstream of the cooling air from the plurality of memory devices such that the cooling air passing through one of the memory devices passes into one of the power source units,	<i>See, e.g.,:</i>

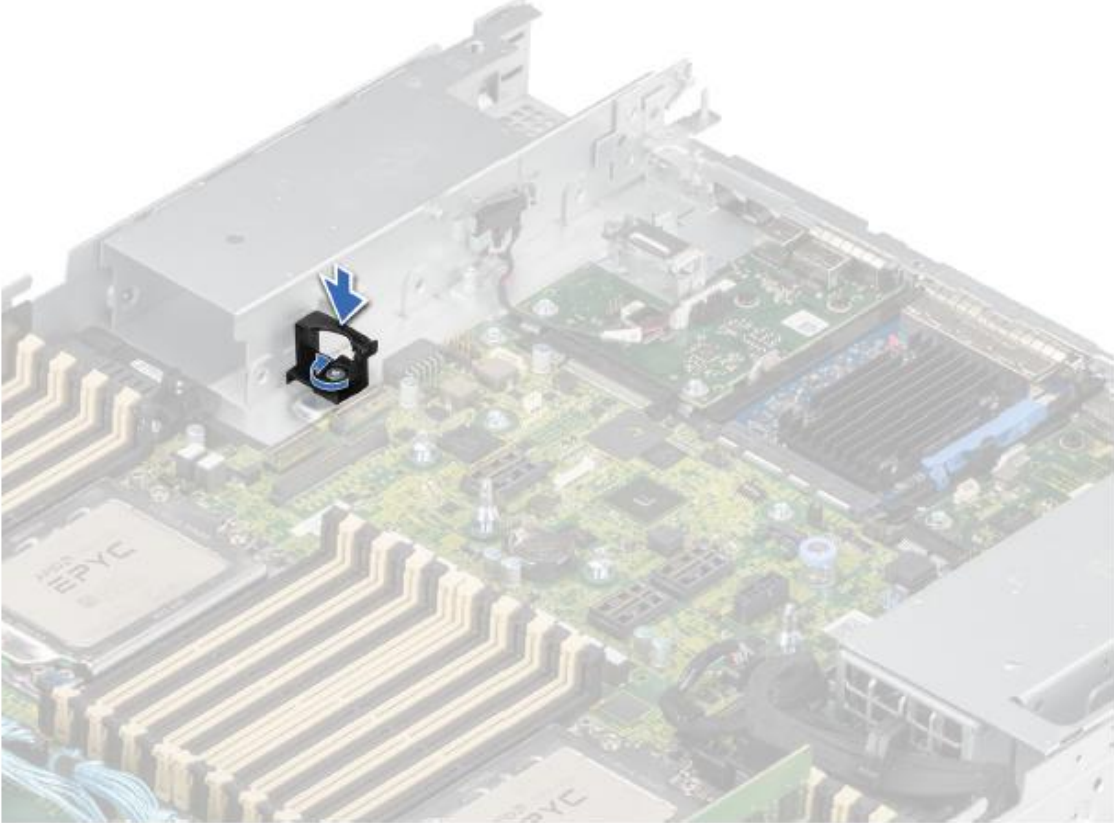
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))		
	Inside the system  Figure 10. Inside view of the PowerEdge R6625. <table border="0"> <tr> <td data-bbox="604 1133 913 1317"> 1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module </td> <td data-bbox="1228 1133 1549 1317"> 2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1 </td> </tr> </table> Installation and Service Manual, 17.	1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module	2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1
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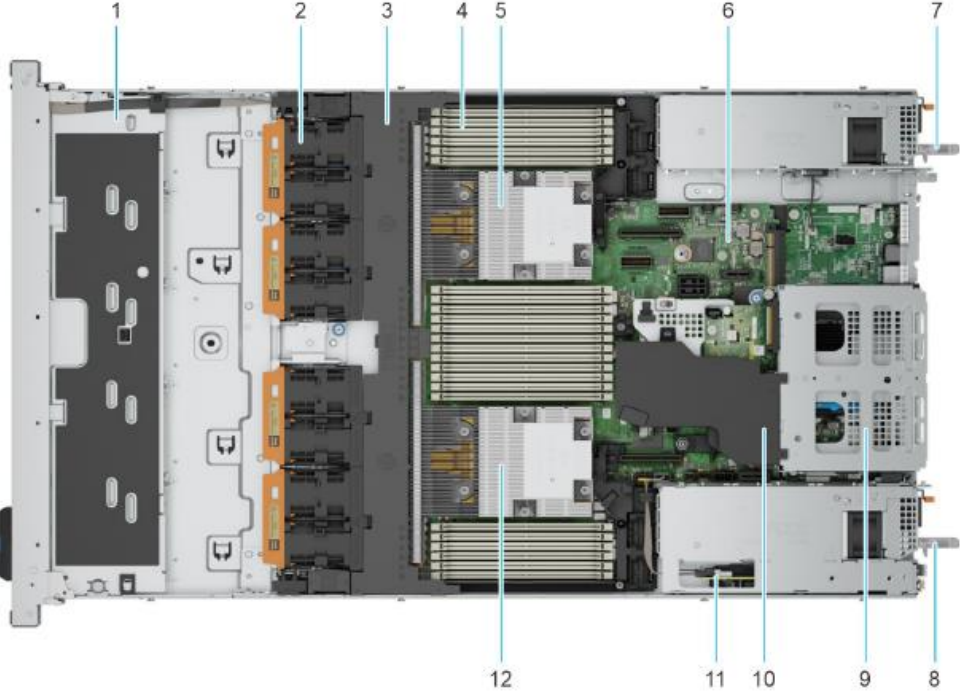
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
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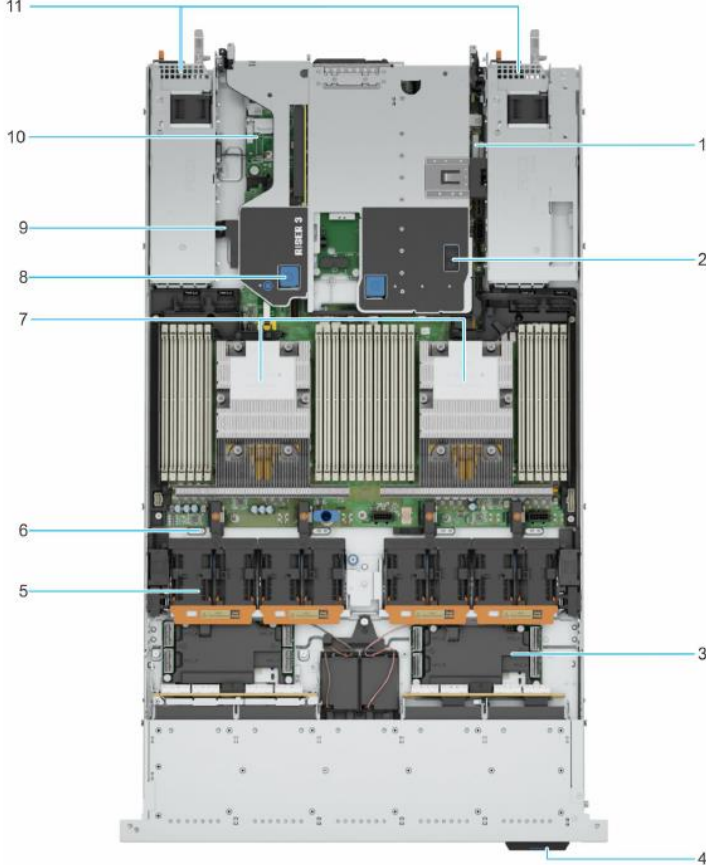
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 111.

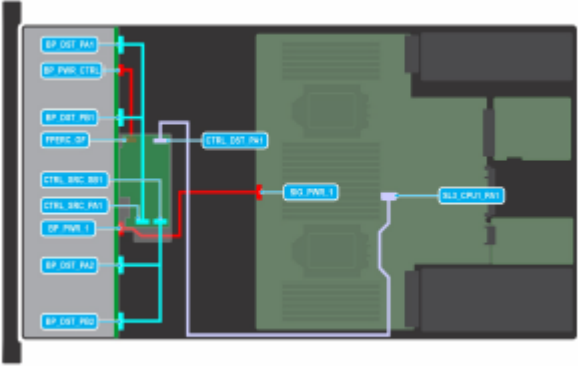
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188.

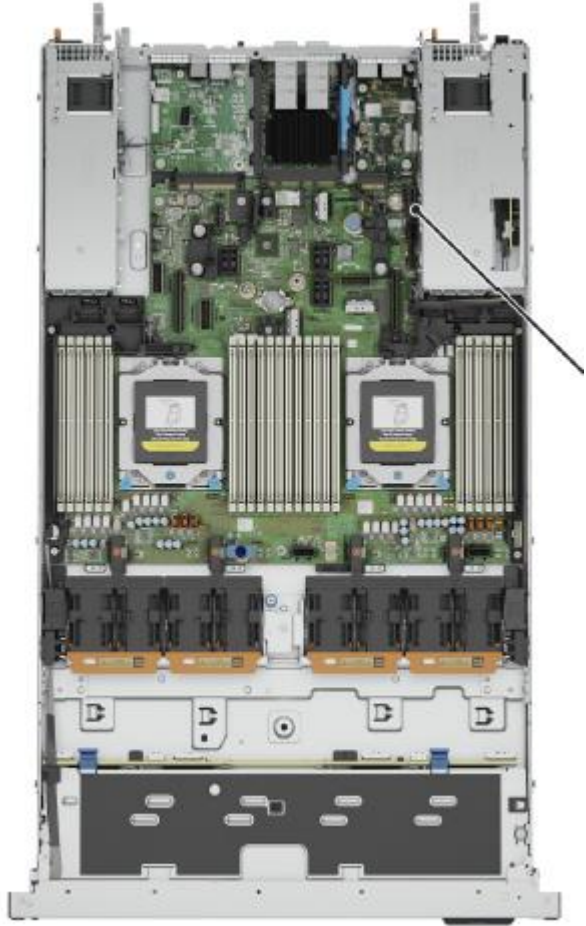
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 201.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 208. See 4[a].
[4c] wherein the plurality of power source units are positioned opposite to each other and spaced out from each other in a width	The plurality of power source units in the Accused Dell '265 Products are positioned opposite to each other and spaced out from each other in a width direction of the housing such that the plurality of power source units are positioned not to be aligned linearly with the CPU in the longitudinal direction.

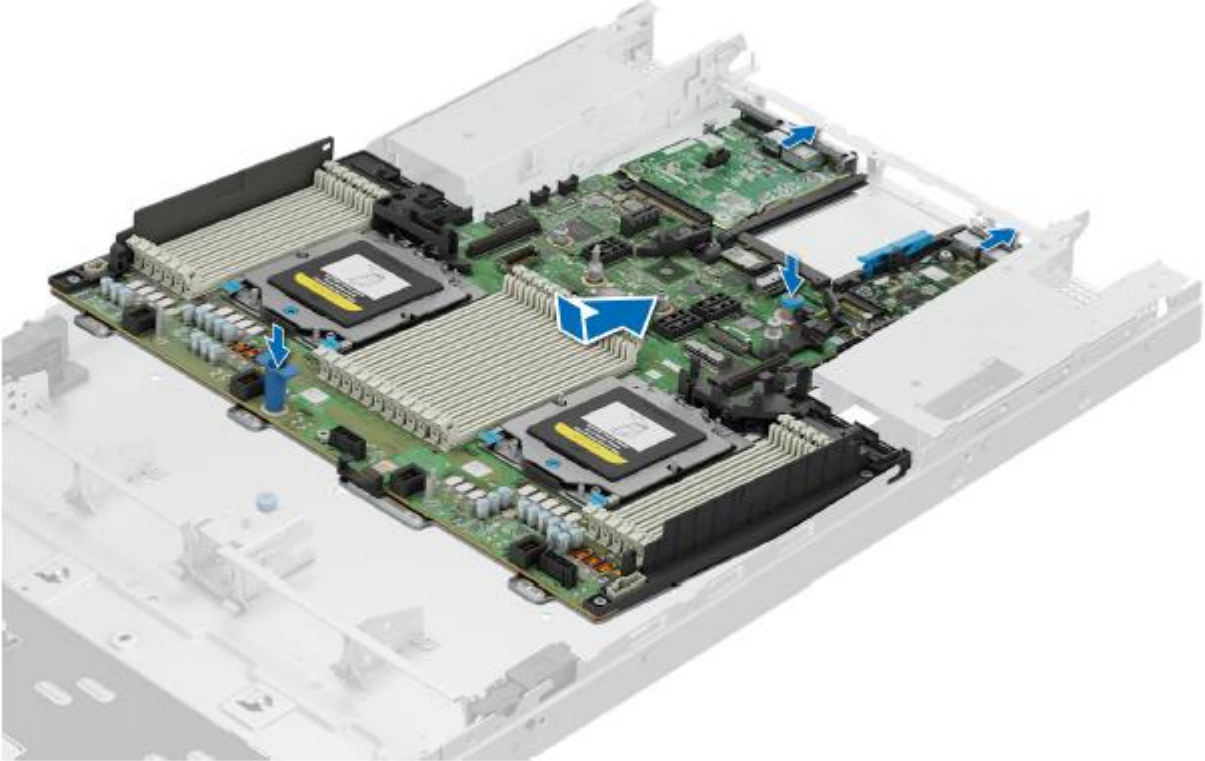
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
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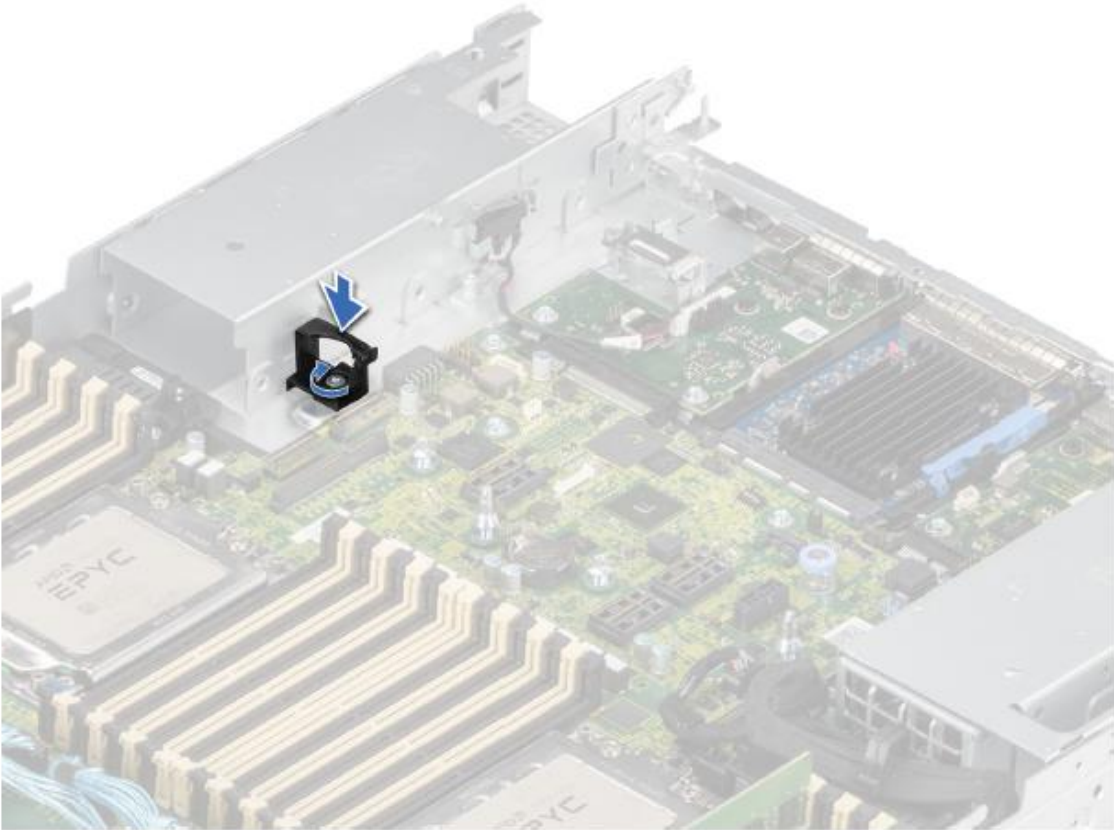
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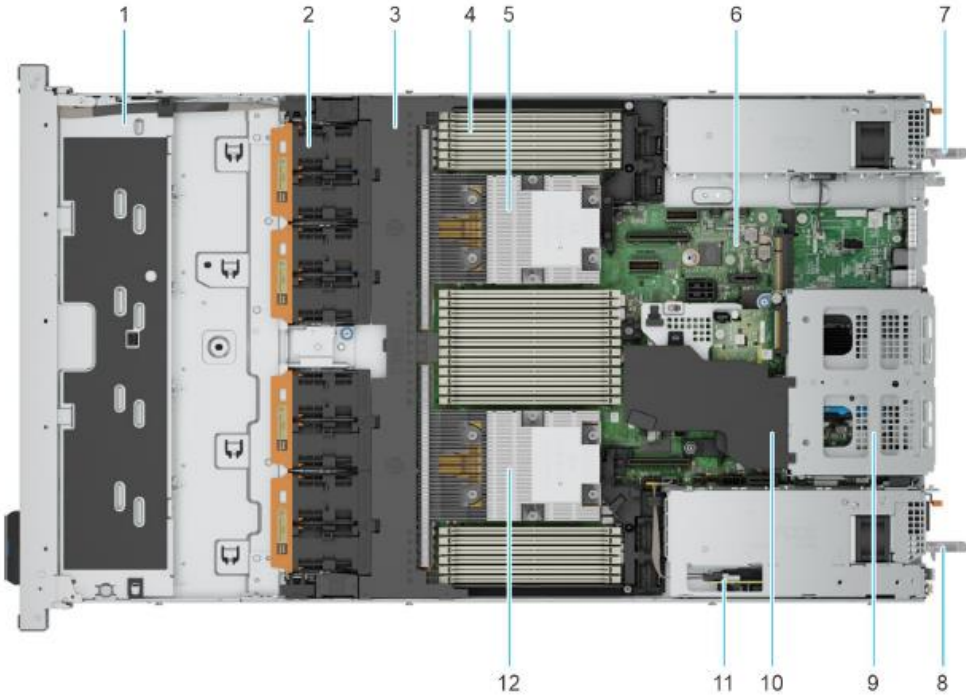
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 111.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 188.

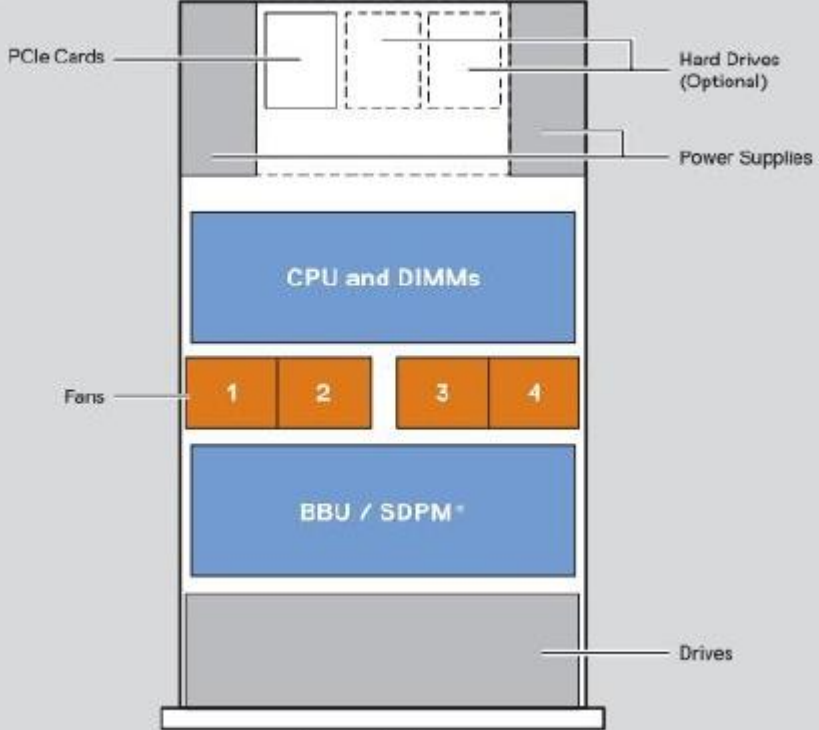
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 194. Installing a power supply unit Installation and Service Manual, 197.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 201.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Installation and Service Manual, 208. See 4[b].
[5] The electronic device according to claim 1, wherein the plurality of power source units are each positioned along an	The plurality of power source units in the Accused Dell '265 Products are each positioned along an extension downstream from the plurality of memory devices. See, e.g.,:

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 20. See claim 1.
[6] The electronic device according to claim 1, wherein the cooling air flows through a heat sink, attached onto the CPU, and	The cooling air in the Accused Dell '265 Products flows through a heat sink, attached onto the CPU, and further flows downstream via a relatively large space formed between the plurality of power source units. See, e.g.,:

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
further flows downstream via a relatively large space formed between the plurality of power source units.	

Removing a heat sink

Prerequisites

1. Follow the safety guidelines listed in the [Safety instructions](#).
2. Follow the procedure listed in the [Before working inside your system](#).
3. If installed, [remove the air shroud](#).

⚠ WARNING: The heat sink and processor are too hot to touch for some time after the system has been powered off. Allow the heat sink and processor to cool down before handling them.

ℹ NOTE: The procedure to uninstall T-type heat sink is similar. The image shows heat sink configuration system.

Steps

1. Using a Torx #12in-lb (+/- 10%) screwdriver, loosen the captive screws in the order that is mentioned on the heat sink. Please follow the torque, screw sequence to fully loosen the screws one-at-a-time for heatsink removal.
 - a. There are a total of 6 screws in this process. Partially loosen the captive screws in the disassembly order (approximately 3 turns) mentioned.
 - b. Follow screw sequence noted on the heat sink label. Disassembly order: 6->5->4->3->2->1.

ℹ NOTE: The captive screw numbers are marked on the heat sink.

2. Lift the heat sink from the system.

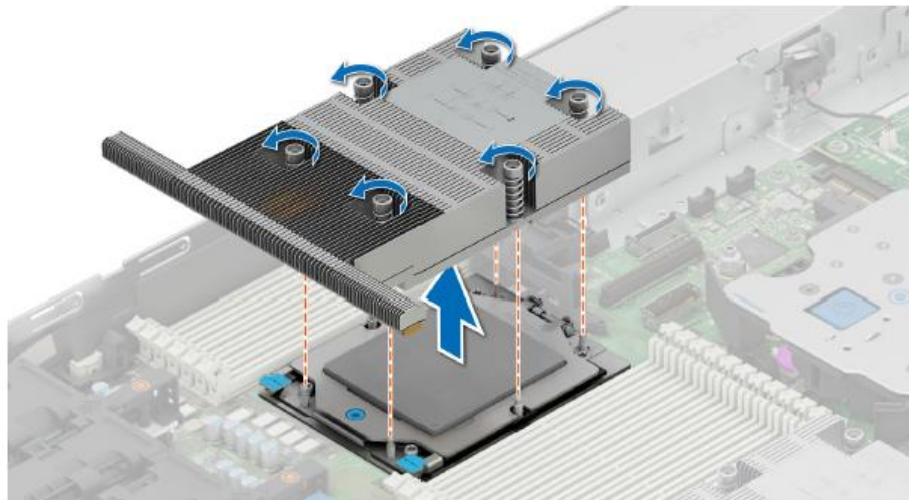
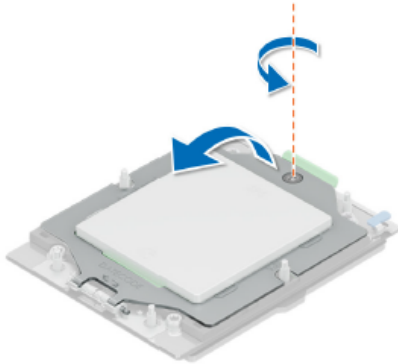
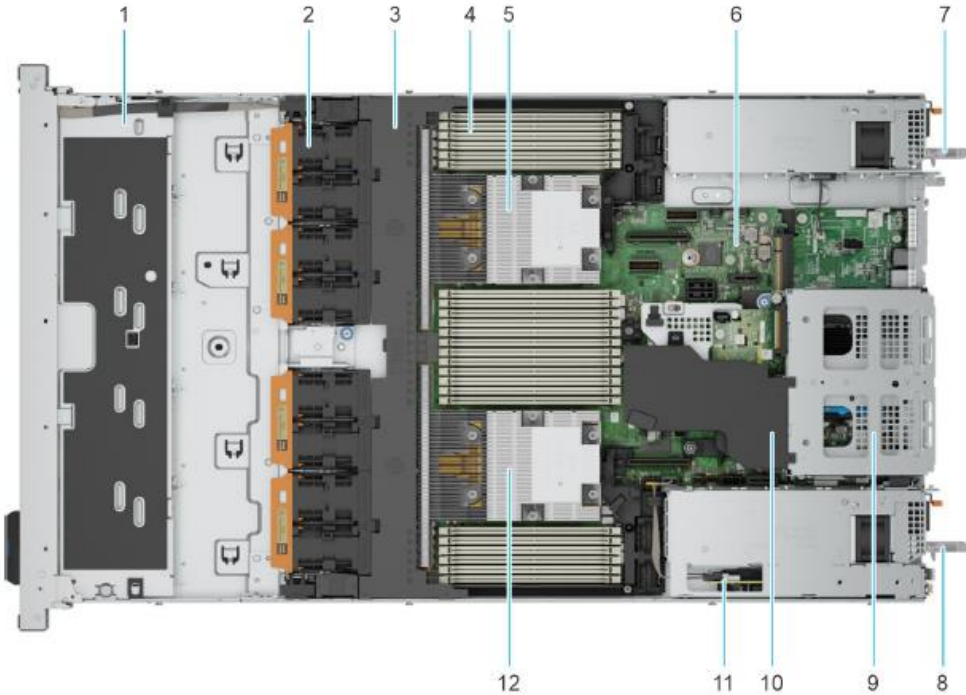
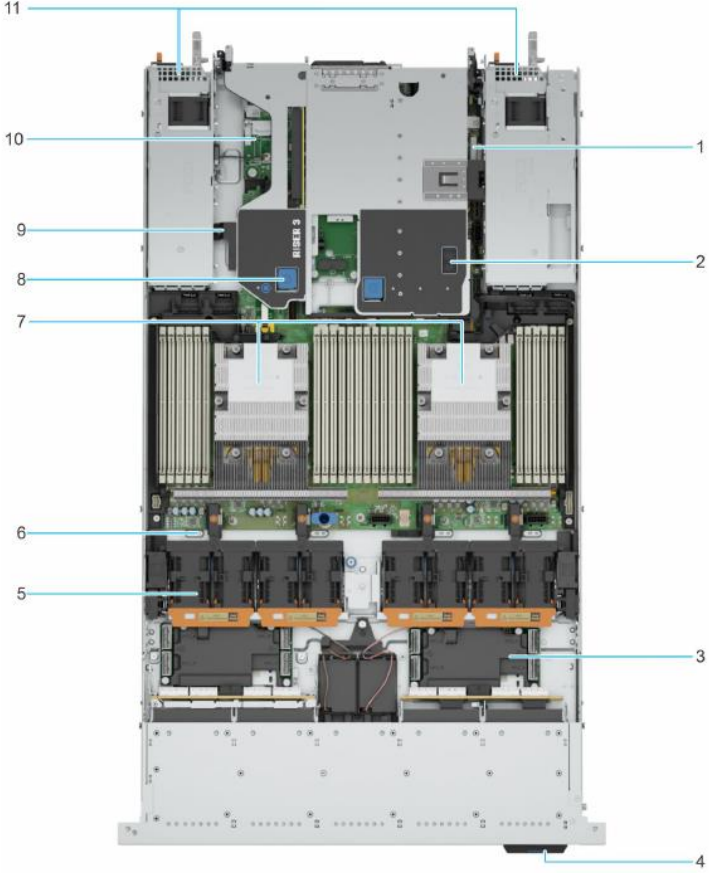


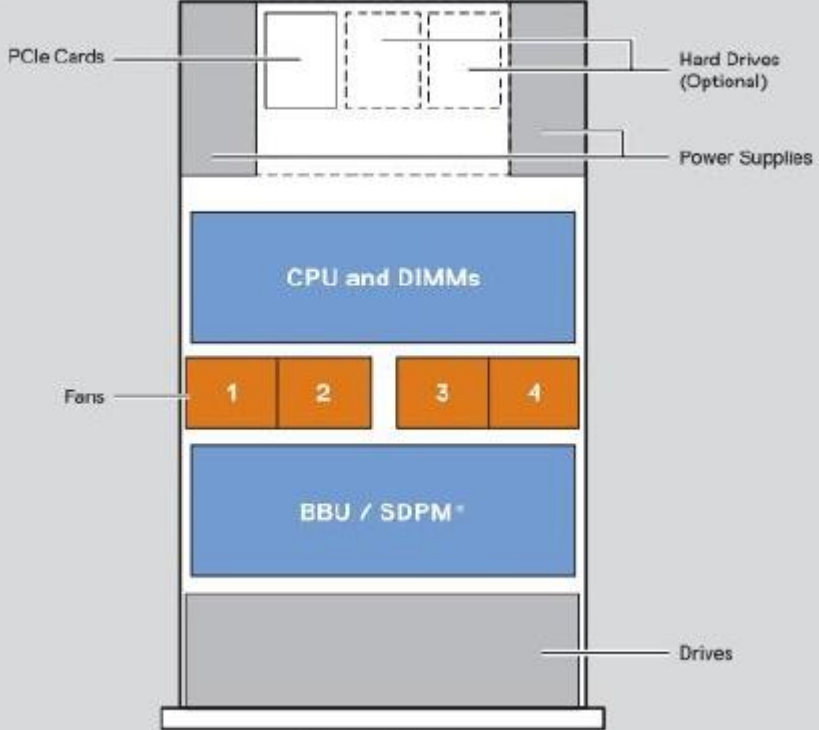
Figure 120. Removing a heat sink

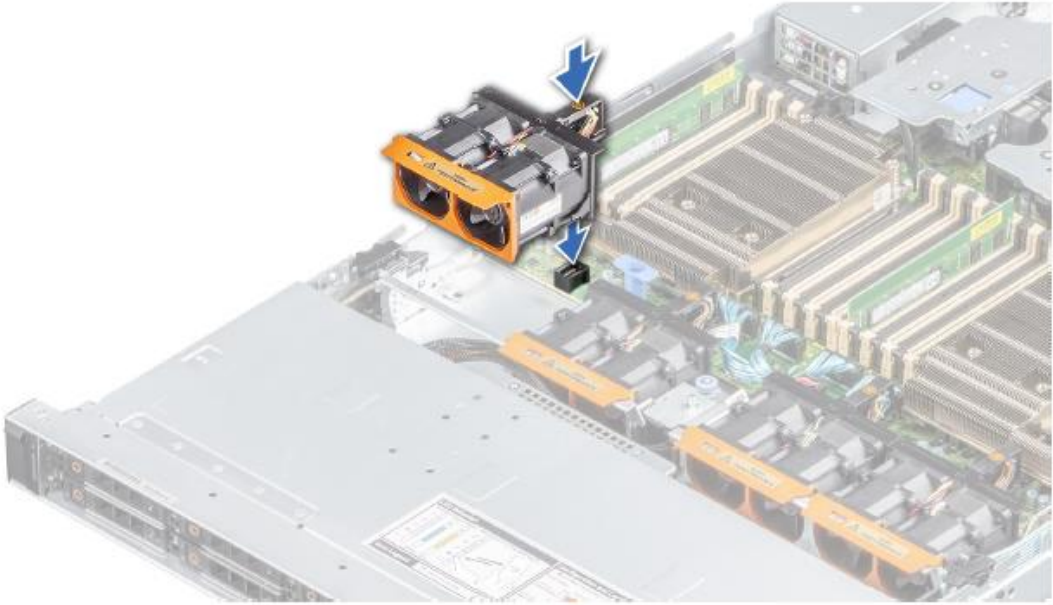
Installation and Service Manual, 134.

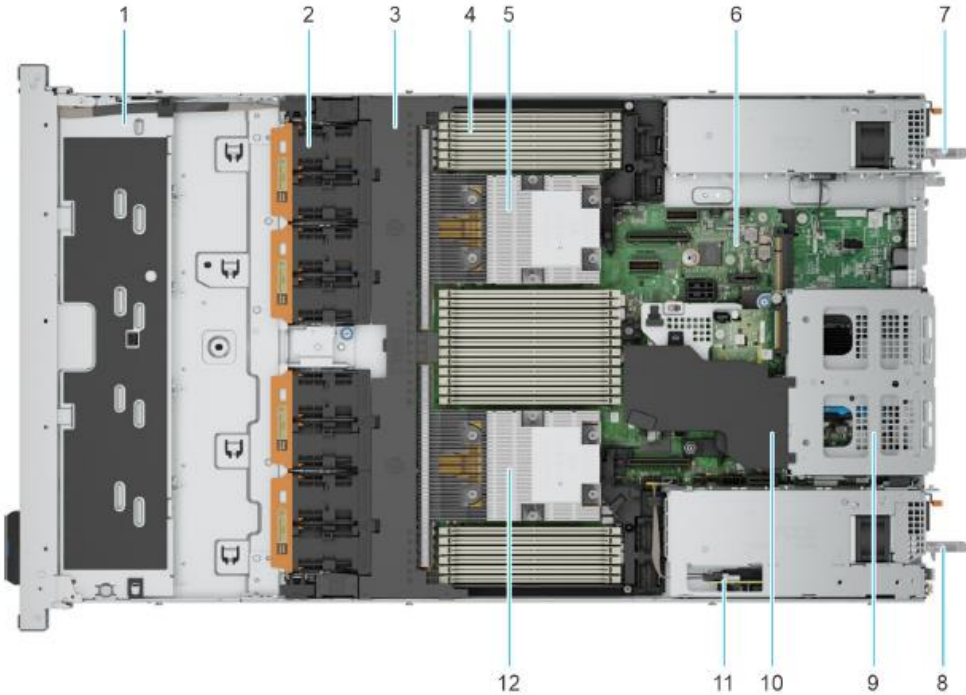
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Removing the processor Prerequisites  WARNING: The heat sink may be hot to touch for some time after the system has been powered off. Allow the heat sink to cool before removing it. 1. Follow the safety guidelines listed in the Safety instructions. 2. Follow the procedure listed in the Before working inside your system. 3. Remove the heat sink.  CAUTION: You may find the CMOS battery loss or CMOS checksum error is displayed during the first instance of powering on the system after the processor or system board replacement which is expected. To fix, go to set up option to configure the system settings. Steps 1. Using a Torx #T20 screwdriver, loosen the screw to release the force plate.  NOTE: There is one screw of CPU SRM retention frame marked on the force plate.  Installation and Service Manual, 135.

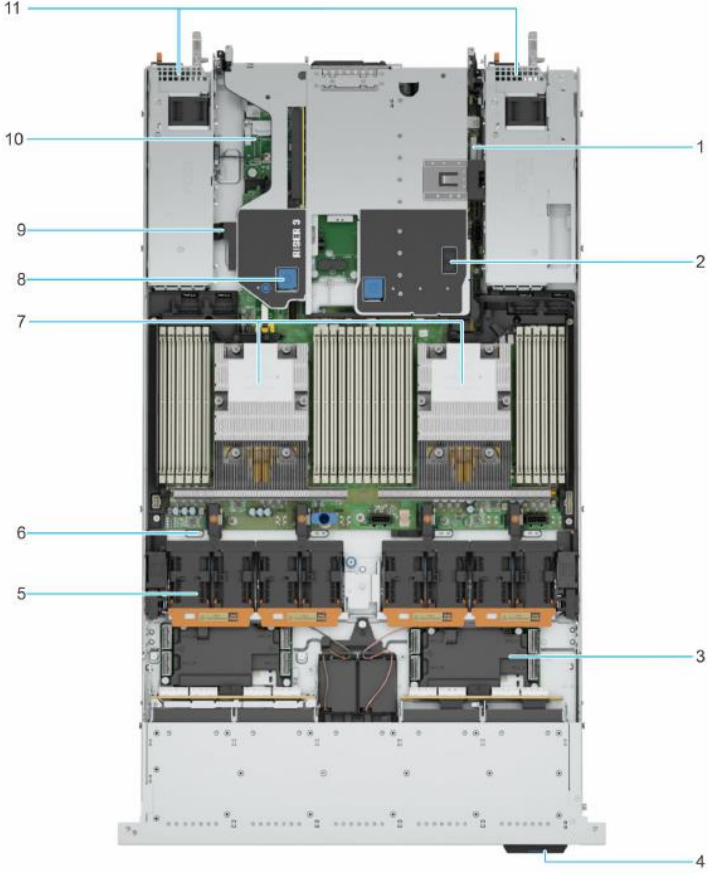
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))		
	Inside the system  Figure 10. Inside view of the PowerEdge R6625. <table border="0"> <tr> <td data-bbox="604 1133 919 1317"> 1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module </td> <td data-bbox="1230 1133 1549 1317"> 2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1 </td> </tr> </table> Installation and Service Manual, 17.	1. Front Storage cover 3. Air shroud 5. Processor 2 and Heat sink 2 7. PSU 2 9. NIC 11. BOSS Module	2. Fans 4. Memory 6. System Board 8. PSU 1 10. Rear drive module air shroud 12. Processor 1 and Heat sink 1
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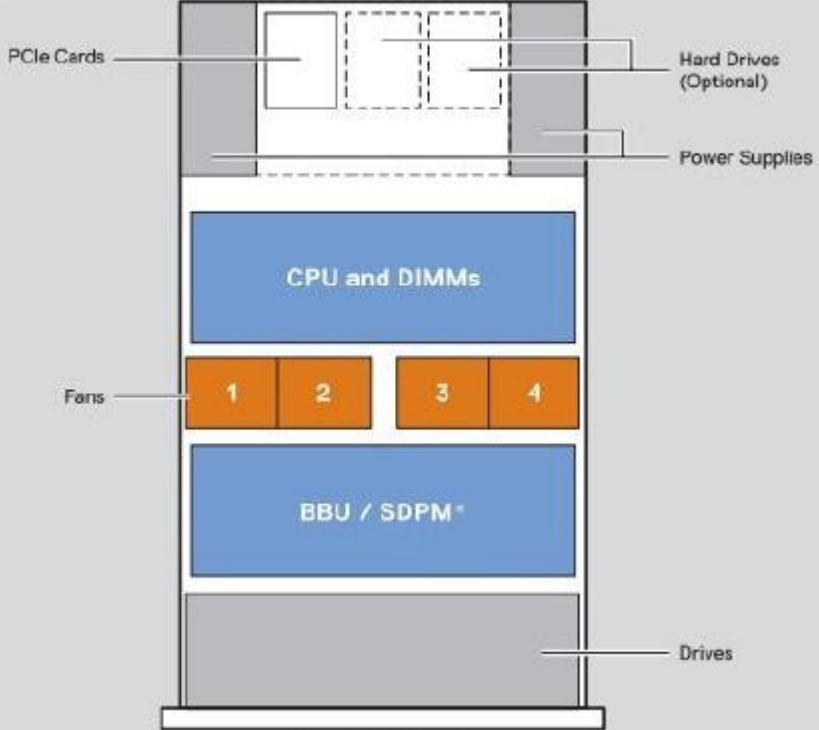
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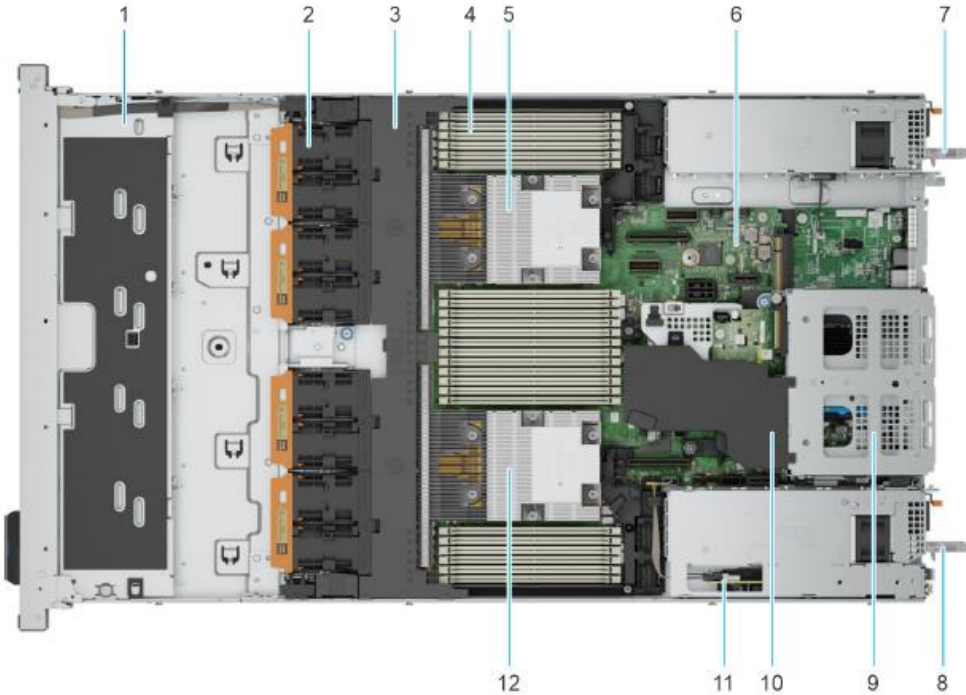
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 62. Installing a cooling fan module Installation and Service Manual, 95. <i>See claim 1.</i>
[7] The cooling structure of an electronic device according to claim 4, wherein the plurality of power source units are each positioned along an extension downstream from the plurality of memory devices.	The plurality of power source units in the Accused Dell '265 Products are each positioned along an extension downstream from the plurality of memory devices. <i>See, e.g.,:</i>

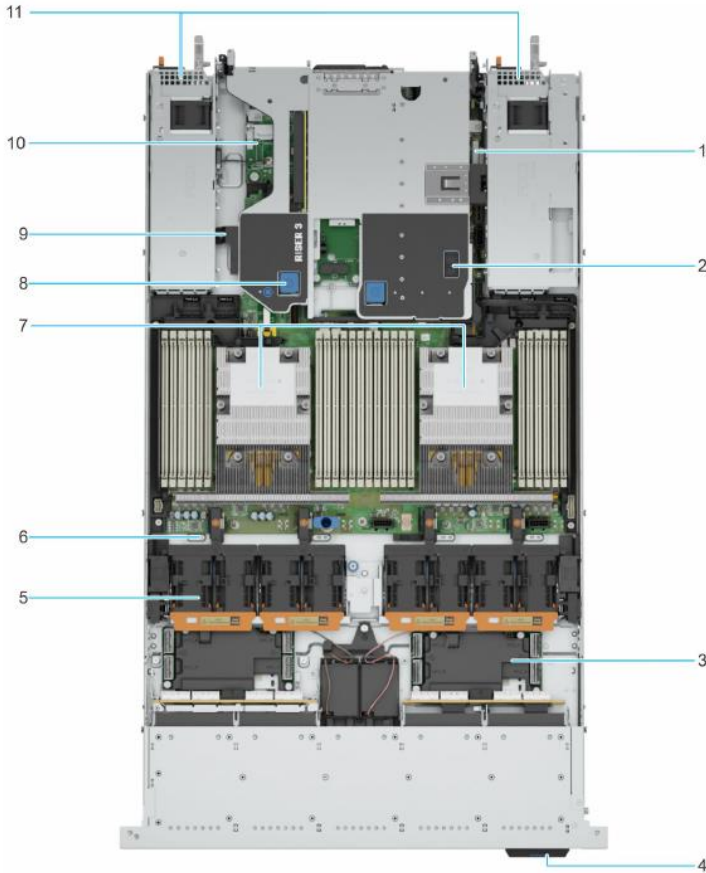
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
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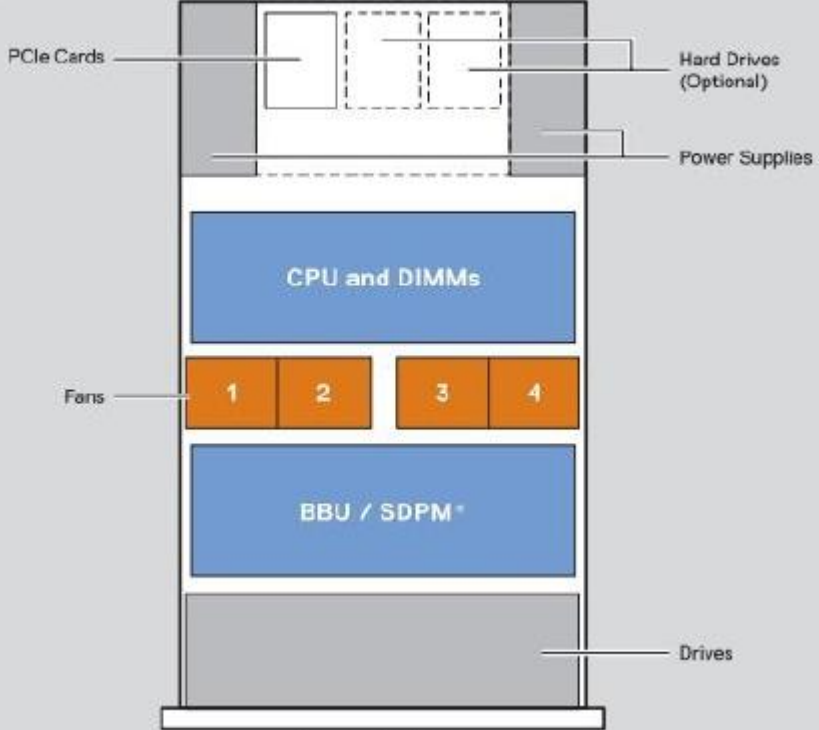
'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	 Figure 11. Inside view of the PowerEdge R6625. 1. BOSS Module 2. Rear E3.S drive module 3. E3.S front PERC 4. Information tag 5. Fans 6. Fan connector 7. Processor and Heat sink 8. Riser 3 9. NIC 10. System board 11. PSU Installation and Service Manual, 18.

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 20. See claim 4.
[8] The electronic device according to claim 1, wherein the plurality of fans are arranged in a direction normal to the longitudinal	The plurality of fans in the Accused Dell '265 Products are arranged in a direction normal to the longitudinal direction, the central processing unit is positioned in a first row, the first row extending parallel to the direction, the plurality of power source units are each positioned in a second row, the second row extending parallel to the direction, the second row being positioned farther from a

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
direction, the central processing unit is positioned in a first row, the first row extending parallel to the direction, the plurality of power source units are each positioned in a second row, the second row extending parallel to the direction, the second row being positioned farther from a longitudinal center of the housing than the first row, and the second row being positioned farther from the plurality of fans than the first row.	longitudinal center of the housing than the first row, and the second row being positioned farther from the plurality of fans than the first row. <i>See, e.g.,:</i>

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
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9. NIC	10. Rear drive module air shroud												
11. BOSS Module	12. Processor 1 and Heat sink 1												

'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))												
	 Figure 11. Inside view of the PowerEdge R6625. <table> <tr> <td>1. BOSS Module</td> <td>2. Rear E3.S drive module</td> </tr> <tr> <td>3. E3.S front PERC</td> <td>4. Information tag</td> </tr> <tr> <td>5. Fans</td> <td>6. Fan connector</td> </tr> <tr> <td>7. Processor and Heat sink</td> <td>8. Riser 3</td> </tr> <tr> <td>9. NIC</td> <td>10. System board</td> </tr> <tr> <td>11. PSU</td> <td></td> </tr> </table> Installation and Service Manual, 18.	1. BOSS Module	2. Rear E3.S drive module	3. E3.S front PERC	4. Information tag	5. Fans	6. Fan connector	7. Processor and Heat sink	8. Riser 3	9. NIC	10. System board	11. PSU	
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'265 Patent Claim ² (P.R. 3-1(a))	Accused Instrumentalities And Where Each Claim Element Is Found ³ (P.R. 3-1(b)-(c))
	Mechanical Overview Top View  Installation and Service Manual, 20. See claim 1.