

Comcast SNE

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COMCAST SNE ENERGY INFORMATION

This site provides information about the energy efficiency of Small Network Equipment (SNE) models, such as Internet modems and routers, that have been purchased, or sold through to customers, by Comcast since January 1, 2015 for use with its residential broadband internet access service. This site will be updated as Comcast makes new devices available to its customers. Some listed models may no longer be available and/or may not be available in all areas. The power measurements herein represent the SNE devices generally configured as they are deployed in the cable operators' networks and running the operators' software, and measured in accordance with the test procedures as specified in the Voluntary Agreement. The energy use of an individual SNE device may vary.

MANUFACTURER	MODEL	BASE TYPE	FEATURES	READY STATE POWER (W)
Sercomm	XB10 - SG417DBCT	IAD D3.1	GigE LAN(2), 10 GigE LAN Connected, 10 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS, Bluetooth, 802.15.4, PCIe Gen 3 Base(3), PCIe Gen 3 Addl Lane(2), AP 5K- 10K DMIPS, AP Addl Over 10K DMIPS(3)	29.00

MANUFACTURER	MODEL	BASE TYPE	FEATURES	READY STATE POWER (W)
Vantiva	XB10 - CGM601TCOM	IAD D3.1	GigE LAN(2), 10 GigE LAN Connected, 10 GigE LAN, 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, FXS, Bluetooth, 802.15.4, PCIe Gen 3 Base(3), PCIe Gen 3 Addl Lane(2), AP 5K- 10K DMIPS, AP Addl Over 10K DMIPS(3)	29.00
Sercomm	XER10 - SCER11BEL	Advanced LNE	GigE LAN(3), 10 GigE LAN Connected(2), 6 GHz Radio (160 MHz) LP, 6 GHz MIMO (160 MHz) above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio (160 MHz) HP, 5 GHz MIMO (160 MHz) above 2x2 HP(2), 802.11n 256 QAM, Bluetooth, 802.15.4, PCIe Gen 3 Base(3), PCIe Gen 3 Addl Lane(2), AP 5K-10K DMIPS, AP Addl Over 10K DMIPS(3)	18.00
Vantiva	XD4 - CVA601ZCOM	IAD D3.1	10 GigE LAN Connected, 10 GigE LAN, FXS(2)	16.50
WNC	XLE - WNXL11BWL	Advanced LNE	4G LTE Simultaneous WAN, GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio (160 MHz) LP(2), 5 GHz MIMO (160 MHz) above 2x2 LP(2), 802.11n 256 QAM, BATTERY, Bluetooth, PCIe Gen 1&2 Base(3)	9.00
Sagemcom	XE2 - B3A	Basic LNE	GigE LAN(2), 2.4 GHz Radio LP, 5 GHz Radio LP(2), 5 GHz MIMO above 2x2 LP(2), 802.11n 256 QAM, Bluetooth, PCIe Gen 1&2 Base(3)	6.50

MANUFACTURER	MODEL	BASE TYPE	FEATURES	READY STATE POWER (W)
CommScope	XB7 - TG4482A	IAD D3.1	GigE LAN(3), 2.5 GigE LAN Connected, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio HP, 5 GHz MIMO above 2x2 HP(2), 802.11n 256 QAM, FXS(2), Bluetooth, 802.15.4, PCIe Gen 1&2 Base(2), PCIe Gen 1&2 Addl Lane, AP 5K-10K DMIPS	23.60
Vantiva (Technicolor)	XB7 - CGM4331COM	IAD D3.1	GigE LAN(3), 2.5 GigE LAN Connected, 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio HP, 5 GHz MIMO above 2x2 HP(2), 802.11n 256 QAM, FXS(2), Bluetooth, 802.15.4, PCIe Gen 1&2 Base(2), PCIe Gen 1&2 Addl Lane, AP 5K-10K DMIPS	17.00
Vantiva (Technicolor)	XB8 - CGM4981COM	IAD D3.1	GigE LAN(3), 2.5 GigE LAN Connected, 6GHz Radio LP, 6 GHz MIMO above 2x2 LP(2), 2.4 GHz Radio HP, 2.4 GHz MIMO above 2x2 HP(2), 5 GHz Radio HP, 5 GHz MIMO above 2x2 HP(2), 802.11n 256 QAM, FXS(2), USB2, Bluetooth, 802.15.4, PCIe Gen 1&2 Base(2), AP 5K-10K DMIPS	18.00
Models below this line were purchased prior to 2023 and reported using the then-applicable Tier 1/Tier 2 set of feature allowances				
WNC	XLE WNXL11BWL	Advanced LNE	GigE LAN(2), WiFi(n) LP, WiFi(ac) LP(2), WiFi above 2x2 LP(2), 802.11n 256 QAM, BATTERY, Bluetooth, PCIe(3)	8.70
Sagemcom	XE2 B3A	Basic LNE	GigE LAN(2), WiFi(n) LP, WiFi(ac) LP(2), WiFi above 2x2 LP(2), 802.11n 256 QAM, Bluetooth, PCIe(3)	6.50
Vantiva (Technicolor)	CGM4981COM	IAD D3.1	GigE LAN(4), WiFi(ac) LP, WiFi above 2x2 LP(2), WiFi(n) HP, WiFi(ac) HP, WiFi above 2x2 HP(4), 802.11n 256 QAM, FXS(2), USB2, Bluetooth, Zigbee, PCIe(2), AP 5K-10K DMIPS	18.00

MANUFACTURER	MODEL	BASE TYPE	FEATURES	READY STATE POWER (W)
CommScope	TG4482A	IAD D3.1	GigE LAN(4), WiFi(n) HP, WiFi(ac) HP, WiFi above 2x2 HP(4), 802.11n 256 QAM, FXS(2), Bluetooth, ZigBee, PCIe(2), AP 5K-10K DMIPS	23.60
Sagemcom	XE2 B1A	Basic LNE	GigE LAN(2), WiFi(n) LP, WiFi(ac) LP(2), WiFi above 2x2 LP(2), 802.11n 256 QAM, Bluetooth, PCIe(3)	6.50
Sagemcom	XE1 A1A	Basic LNE	GigE LAN, WiFi(n) LP, WiFi(ac) LP, Bluetooth	3.50
Vantiva (Technicolor)	CGM4331COM	IAD D3.1	GigE LAN(4), WiFi(n) HP, WiFi(ac) HP, WiFi above 2x2 HP(4), 802.11n 256 QAM, FXS(2), Bluetooth, ZigBee, PCIe(2), AP 5K-10K DMIPS	17.00
CommScope	X5001	IAD 10G EPON	GigE LAN(4), WiFi(n) LP, WiFi(ac) LP, WiFi above 2x2 LP(2), MoCA, FXS(2), USB2, PCIe(2)	20.50
CommScope	TG3482G P2	IAD D3.1	GigE LAN(2), WiFi(n) LP, WiFi(ac) LP, WiFi above 2x2 LP(6), 802.11n 256 QAM, MoCA, FXS(2), Bluetooth, Zigbee, Z-wave, PCIe(2), AP 5K-10K DMIPS	25.50
Technicolor	CGM4140COM	IAD D3.1	GigE LAN(2), WiFi(n) LP, WiFi(ac) LP, WiFi above 2x2 LP(6), 802.11n 256 QAM, MoCA, FXS(2), Bluetooth, Zigbee, Z-wave, PCIe(2), AP 5K-10K DMIPS	24.00
Technicolor	TC4400	Basic D3.1	GigE LAN(2)	11.00
Arris	TG3482G	IAD D3.1	GigE LAN(2), WiFi(n) LP, WiFi(ac) LP, WiFi above 2x2 LP(6), 802.11n 256 QAM, MoCA, FXS(2), Bluetooth, Zigbee, Z-wave, PCIe(2), AP 5K-10K DMIPS	27.40
Arris	TG1682G P3	IAD D3.0	D3.0 above 4x4(5), GigE LAN(4), WiFi(n) HP, WiFi(ac) HP, WiFi above 2x2 HP(2), MoCA, FXS(2), USB2(2)	16.00

MANUFACTURER	MODEL	BASE TYPE	FEATURES	READY STATE POWER (W)
Cisco	DPC3941Tv2	IAD D3.0	D3.0 above 4x4(5), GigE LAN(4), WiFi(n) LP, WiFi(ac) LP, WiFi above 2x2 LP(2), 256QAM, MoCA, FXS(2), USB2(2), PCIe(2)	20.00
Netgear	WN3000RP	Basic LNE	FastE LAN, WiFi(n) LP	2.00
Netgear	R6300v2	IAD GigE	GigE LAN(4), WiFi(n) HP, WiFi(ac) HP, WiFi above 2x2(2), 802.11n 256 QAM, USB2, USB3, PCIe(2)	10.50
Technicolor	TC8717CV1	IAD D3.0	D3.0 above 4x4(3), GigE LAN(4), WiFi(n) HP, WiFi(ac) HP, WiFi above 2x2 HP(2), MoCA, FXS(2), USB2(2)	17.00
Technicolor	TC8305C	IAD D3.0	D3.0 above 4x4, GigE LAN(4), WiFi(n) HP, WiFi above 2x2 HP, FXS(2), USB2	10.00
Arris	TG1682G	IAD D3.0	D3.0 above 4x4(5), GigE LAN(4), WiFi(n) HP, WiFi(ac) HP, WiFi above 2x2 HP(2), MoCA, FXS(2), USB2(2)	20.00
Arris	TG862	IAD D3.0	D3.0 above 4x4, GigE LAN(4), WiFi(n) LP, FXS(2), USB2	9.00
Cisco	DPC3941T	IAD D3.0	D3.0 above 4x4(5), GigE LAN(4), WiFi(n) LP, WiFi(ac) LP, WiFi above 2x2 LP(2), MoCA, FXS(2), USB2(2), PCIe(2)	20.50
Cisco	DPC3939	IAD D3.0	D3.0 above 4x4(3), GigE LAN(4), WiFi(n) LP(2), WiFi above 2x2 LP(2), MoCA, FXS(2), USB2(2), PCIe(2)	18.00

BASE TYPE KEY

SHORTCUT	BASE TYPE
IAD D3.0	Integrated Access Device with DOCSIS 3.0 WAN basic 4x4 configuration
IAD D3.1	Integrated Access Device with DOCSIS 3.1 (no FDX)
IAD Fiber WAN	On-board Fiber WAN (without SFP)
IAD GigE	Integrated Access Device with Gigabit Ethernet WAN

SHORTCUT	BASE TYPE
IAD SFP GPON	Integrated Access Device with GPON SFP WAN interface
IAD 10G EPON	Integrated Access Device with 10G EPON WAN interface
IAD 10 GB PON	10GB PON WAN (with SFP)
Basic D3.0	DOCSIS 3.0 basic configuration (4x4)
Basic D3.1	DOCSIS 3.1 basic modem (no FDX)
Basic 10G EPON	10G EPON basic modem
Basic LNE	Local Network Equipment that does not include Advanced LNE features
Advanced LNE	Local Network Equipment (LNE) that incorporates multi-port routing, wireless access point, and/or VoIP functionality

FEATURE KEY

Note: A feature listed in the table above with a number following it indicates the number of ports or interfaces of that type supported by the device. For example, GigE LAN(4) indicates the device has four GigE LAN ports. If a number is not provided, it defaults to (1).

SHORTCUT	FEATURE NAME
D3.0 above 4x4	DOCSIS 3.0 additional groups of 4 downstream channels
GigE Backup WAN	Gigabit Ethernet Backup WAN
SFP Backup WAN	SFP Backup WAN
4G LTE Simultaneous WAN	4G LTE Simultaneous WAN up to 23 dBm Tx Power
5G Simultaneous WAN	5G FR1 up to 26 dBm Tx Power
FastE LAN	Fast Ethernet Port
GigE LAN	Gigabit Ethernet Port
2.5 GigE LAN Connected	2.5 Gigabit Ethernet port connected during test (active link)
2.5 GigE LAN	2.5 Gigabit Ethernet port not connected
5 GigE LAN Connected	5 Gigabit Ethernet port connected during test (active link)
5 GigE LAN	5 Gigabit Ethernet port not connected

SHORTCUT	FEATURE NAME
10 GigE LAN Connected	10 Gigabit Ethernet port connected during test (active link)
10 GigE LAN	10 Gigabit Ethernet port not connected
2.4 GHz Radio LP	Wi-Fi 2.4 GHz radio with a conducted output power of less than 200 mW per chain up to 2x2
2.4 GHz MIMO above 2x2 LP	Additional allowance per RF chain above 2x2 MIMO at 2.4 GHz with a conducted output power of less than 200 mW per chain
5 GHz Radio LP	Wi-Fi 5 GHz radio up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2
5 GHz MIMO above 2x2 LP	Additional allowance per RF chain above 2x2 MIMO at 5 GHz up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain
5 GHz Radio (160 MHz) LP	Wi-Fi 5 GHz radio at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2
5 GHz MIMO (160 MHz) above 2x2 LP	Additional allowance per RF chain above 2x2 MIMO at 5 GHz at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain
6 GHz Radio LP	Wi-Fi 6 GHz radio up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2
6 GHz MIMO above 2x2 LP	Additional allowance per RF chain above 2x2 MIMO at 6 GHz up to 80 MHz channel bandwidth with a conducted output power of less than 200 mW per chain
6 GHz Radio (160 MHz) LP	Wi-Fi 6 GHz radio at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain up to 2x2
6 GHz MIMO (160 MHz) above 2x2 LP	Additional allowance per RF chain above 2x2 MIMO at 6 GHz at 160 MHz channel bandwidth with a conducted output power of less than 200 mW per chain
2.4 GHz Radio HP	Wi-Fi 2.4 GHz radio with a conducted output power of greater than or equal to 200 mW per chain up to 2x2
2.4 GHz MIMO above 2x2 HP	Additional allowance per RF chain above 2x2 MIMO at 2.4 GHz with a conducted output power of greater than or equal to 200 mW per chain
5 GHz Radio HP	Wi-Fi 5 GHz radio up to 80 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2
5 GHz MIMO above 2x2 HP	Additional allowance per RF chain above 2x2 MIMO at 5 GHz up to 80 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain

SHORTCUT	FEATURE NAME
5 GHz Radio (160 MHz) HP	Wi-Fi 5 GHz radio at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2
5 GHz MIMO (160 MHz) above 2x2 HP	Additional allowance per RF chain above 2x2 MIMO at 5 GHz at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain
6 GHz Radio HP	Wi-Fi 6 GHz radio up to 80 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2
6 GHz MIMO above 2x2 HP	Additional allowance per RF chain above 2x2 MIMO at 6 GHz up to 80 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain
6 GHz Radio (160 MHz) HP	Wi-Fi 6 GHz radio at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain up to 2x2
6 GHz MIMO (160 MHz) above 2x2 HP	Additional allowance per RF chain above 2x2 MIMO at 6 GHz at 160 MHz channel bandwidth with a conducted output power of greater than or equal to 200 mW per chain
802.11n 256 QAM	Wi-Fi IEEE 802.11n at 2.4GHz supporting 256-QAM
HPNA	Home Phoneline Networking Alliance
MoCA	Multimedia over Coax Alliance 1.1/2.0
FXS	Foreign eXchange Subscriber (phone ports)
DECT	Digital Enhanced Cordless Telecommunications
USB2	USB 2.0
USB3	USB 3.0
SATA	Serial ATA
BATTERY	Back-up battery
Bluetooth	Bluetooth
Z-wave	Z-wave
802.15.4	802.15.4 for ZigBee, Thread, etc.
PCIe Gen 1 & 2 Base	PCIe Interface Gen 1 & 2 Base (includes first lane)
PCIe Gen 1 & 2 Addl Lane	PCIe Gen 1 & 2 Additional Lane
PCIe Gen 3 Base	PCIe Interface Gen 3 Base (includes first lane)
PCIe Gen 3 Addl Lane	PCIe Gen 3 Additional Lane
AP 5K-10K DMIPS	Application Processor 5K-10K DMIPS

SHORTCUT	FEATURE NAME
AP Addl. Over 10K DMIPS	Application Processor > 10K DMIPS (for every addl. 5K DMIPS)
Speaker	Speaker < 10 Watts (maximum 2)
Voice Control	Voice Control

FEATURE KEY FOR TIER 1 AND TIER 2 LISTINGS

SHORTCUT	FEATURE NAME
D3.0 above 4x4	DOCSIS 3.0 additional groups of 4 downstream channels
GigE Backup WAN	Gigabit Ethernet Backup WAN
SFP Backup WAN	SFP Backup WAN
FastE LAN	Fast Ethernet Port
GigE LAN	Gigabit Ethernet Port
WiFi(n) LP	Wi-Fi IEEE 802.11n radio at 2.4 GHz or at 5.0 GHz with a conducted output power less than 200 mW per chain (up to 2x2, i.e. 400 mW)
WiFi(ac) LP	Wi-Fi, IEEE 802.11ac radio at 5 GHz with a conducted output power less than 200 mW per chain (up to 2x2, i.e. 400 mW)
WiFi above 2x2 LP	Additional allowance per RF chain above a 2x2 MIMO configuration (e.g., for 3x3 and 4x4) with a conducted output power less than 200 mW per chain
WiFi(n) HP	Wi-Fi IEEE 802.11n radio at 2.4 GHz or at 5.0 GHz with a conducted output power greater than or equal to 200 mW per chain (up to 2x2, i.e. 400 mW)
WiFi(ac) HP	Wi-Fi, IEEE 802.11ac radio at 5 GHz with a conducted output power greater than or equal to 200 mW per chain (up to 2x2, i.e. 400 mW)
WiFi above 2x2 HP	Additional allowance per RF chain above a 2x2 MIMO configuration (e.g., for 3x3 and 4x4) with a conducted output power greater than 200 mW per chain
802.11n 256 QAM	Wi-Fi IEEE 802.11n at 2.4GHz supporting 256-QAM
HPNA	Home Phoneline Networking Alliance
MoCA	Multimedia over Coax Alliance 1.1/2.0
FXS	Foreign eXchange Subscriber (phone ports)
DECT	Digital Enhanced Cordless Telecommunications
USB2	USB 2.0
USB3	USB 3.0

SHORTCUT	FEATURE NAME
SATA	Serial ATA
BATTERY	Back-up battery
Bluetooth	Bluetooth
ZigBee	ZigBee
Z-wave	Z-wave
PCIe	PCIe Interface
AP 5K-10K DMIPS	Application Processor 5K-10K DMIPS

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