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GSM / GPRS Products:

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Network-In-A- Box™ (NIB)

interWAVE's Network-In-A-Box™ (NIB) product offers the ability to support a complete GSM network by integrating a Mobile Switching Center (MSC), a Base Station Controller (BSC) and a Base Transceiver Station (BTS) in a single enclosure about the size of a PC tower. The NIB is designed for rapid deployment, with compactness suitable for many special applications, and the cost effectiveness for very small capacity networks or network extensions. The NIB can support either a completely stand-alone GSM network and integrate with existing wireline and wireless network infrastructures or can be deployed as part of an extension of an existing Public Land Mobile Network (PLMN). Its usage has ranged from remote small coverage areas often with satellite backhaul to enterprise private GSM networks integrating with private PBXs.

The NIB offers other benefits such as a cost-efficient GSM starter network because it allows wireless service providers to match their infrastructure expenditures to the growth of subscriber usage. It is easy to scale from a single NIB to a network requiring multiple MSC, BSC, and BTS.

Download the Data Sheet for the NIB.

WAVEXchange (WXC)

The WAVEXchange (WXC) is a standard GSM Mobile Switching Center (MSC) with a built-in Visitor Location Register (VLR)/ Home Location Register (HLR). interWAVE's WXC is extremely easy to operate and maintain and it performs standard MSC functions such as call processing, supplementary services, and mobility functions/interfaces. It is ideally suited for the lower density/capacity GSM networks where local switching can greatly reduce remote transmission costs.

As part of a GSM network, the WXC can be seamlessly integrated with an existing Public Switched Telephone Network (PSTN) network, another Public Land Mobile Network (PLMN) network, or simply as an extension of an existing PLMN network. It is the only GSM switch on the market today that can act either as a Base Station Controller (BSC) extension of a central MSC or as a local MSC on a call-by-call basis: this is achieved using interWAVE's patented intelligent traffic management feaure, PALIM™. interWAVE's WAVEXchange includes a CAMEL based SSP function designed to interface with an IN prepaid service. This enables operators to increase their service offering and competitive differentiation.

The WXC adopts the standard GSM interfaces and may be configured with up to 16 E1 or T1 ports that support up to 8,000 subscribers,

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depending network requirements.

Download the Data Sheet for WAVEXchange.

WAVEXchange II (WXC II)

interWAVE's WAVEXchange II (WXC II) is a large GSM mobile switch with capacity of up to 256 E1 ports and 100,000 subscribers. The WXC II provides operators with a wide range of features to grow their businesses and includes basic telephony services and value added services. Its compact size minimizes both the physical space needs and installation costs. The WAVEXchange II Mobile Switching Center (MSC) is a complete GSM solution and includes a built-in Visitor Location Register (VLR) and an optional Home Location Register (HLR). It offers short message services, voice announcement server and the options to include built-in echo cancellers, a prepaid server and web based Operations and Management Center (OMC). The user-friendly GUI simplifies the operation and maintenance process. As part of a GSM network, the WXC II can be seamlessly integrated with an existing Public Switched Telephone Network (PSTN), another Public Land Mobile Network (PLMN), or simply as an extension of an existing PLMN.

Download the Data Sheet for WAVEXchange II.

WAVE.HLR/AuC

The WAVE.HLR/AuC is interWAVE 's high capacity, compact Home Location Register (HLR) with an integrated Authentication Center (AuC). With capacity of up to 200,000 subscribers, the WAVE.HLR/AuC can be a part of interWAVE's WAVEXchange II or interwork with third party MSCs. The HLR is compliant with GSM Phase 2+ standard. The Authentication Center of the WAVEHLR/AuC supports the GSM standard authentication algorithms or user defined algorithms. The WAVE.HLR/AuC is highly reliable and secured. With multiple units, GSM operators can easily grow their networks from 10,000 subscribers to 200,000 subscribers.

Download the Data Sheet for WAVEXchange II.

WAVETransit

interWAVE's WAVETransit is a transit switch that interconnects mobile and landline networks. The WAVETransit acts as a hub between multiple WAVEXchange clusters to form large-scale, distributed GSM networks. The WAVETransit has extensive trunk routing capability and supports multiple signaling protocols. The system can operate as a centralized transit switch or can be configured in a network with central and remote transit switches. This distributed transit switch network can be managed from a centralized OMC server co-located with the central transit switch.

Download the Data Sheet for WAVETransit.

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WAVEXpress BSC

The WAVEXpress Base Station Controller (BSC) is a compact base station controller that aggregates and manages the communications between the WAVEXpress BTS and the central GSM switching center or local WAVEXchange GSM switch. The wall-mountable WAVEXpress BSC, the smallest GSM base station controller on the market, connects to any main GSM switching center supporting the GSM standard. The WAVEXpress BSC can be configured with up to 16 communications ports depending on the requirements of the network.

Download the Data Sheet for WAVEXpress BSC

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UltraWAVE BSC

The UltraWAVE BSC is interWAVE's high capacity Base Station Controller that aggregates and manages the communications between the BTS and the GSM switching center. The UltraWAVE BSC supports up to 84 TRXs, depending upon the network requirements. Based upon its redundant, compact and cost-effective design, the UltraWAVE BSC lowers network costs while increasing service quality within any GSM, DCS, or PCS digital wireless network. It offers the operators a more economical and easily manageable growth path. The majority of the operators can start with a BSC configured for the initial capacity and add more trunk cards to grow the network as needed. interWAVE's

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UltraWAVE BSC supports the ETSI GSM standard and its DCS/PCS derivatives.

Download the Data Sheet for UltraWAVE BSC

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WAVEXpress BTS

The WAVEXpress BTS is a Base Transceiver Station, or base station, which can accommodate up to three TRX radios. WAVEXpress BTS are available in all three GSM frequency bands: 900 MHZ and 1800 MHZ for Europe and Asia, and 1900 MHZ for the Americas. The WAVEXpress BTS connects the mobile user to the network with no need for additional components.

An optional TurboWAVE module enables higher power that offers broader geographic coverage with over 20 kilometers of range. In covering a longer range, the TurboWAVE module offers the service provider benefits from increased coverage, greater reduction in transmission costs and lower cell site costs per subscriber.

Download the Data Sheet for WAVEXpress BTS.

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UltraWave BTS 6

The UltraWAVE BTS 6 is interWAVE's high capacity, macro Base Transceiver Station (BTS) which accommodates 6 TRX radios and is ideal for providing coverage in both urban and rural areas. Its industry leading power output (50W) increases the BTS coverage and provides sufficient capacity for urban populations. interWAVE's UltraWAVE BTS 6 offers band operation in both 850 MHz and 900 MHz and supports frequency hopping, sectorization, and GPRS.

Designed for easy expansion, interWAVE's UltraWAVE BTS 6 is field upgradeable making capacity growth safe and easy. Further, field replaceable modules are hot swappable which eliminates the need to shut down or recalibrate the system to restore normal operations. This unique approach allows an operator to employ an incremental, build-as-you-grow approach – as subscriber demand increases, the initial deployment can easily expand into a higher capacity system that is capable of supporting more subscribers.

UltraWAVE BTS 6 also simplifies maintenance and lowers the associated costs by featuring remote monitoring, external alarms, overtemp protection, redundant power supply, field replaceable modules and front access.

Download the Data Sheet for UltraWave BTS 6.

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WAVEXpress BS PLUS

The WAVEXpress BS Plus is an integrated Base Station Controller (BSC) and Base Transceiver Station (BTS) in a single enclosure. A WAVEXpress BS Plus can support up to two external WAVEXpress base stations with the total capacity of a few hundred to a couple of thousand subscribers depending on the traffic profile.

Download the Data Sheet for WAVEXpress BS Plus

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WAVEXpress TurboMAX BS Plus

The WAVEXpress TurboMAX BS Plus integrates the Base Station Controller (BSC) and high-power Base Transceiver Station (BTS) into a single chassis. It is a high-power, low-cost, compact solution to provide Wireless Local Loop (WLL), micro cell expansion, and specialty GSM deployment. The TurboMAX BS Plus combines all of the functionality of the BSC and the high-power BTS, making it the perfect solution to provide capacity to a growing market or low cost expansion solution in a new deployment.

Download the Data Sheet for WAVEXpress TurboMAX BS Plus

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WAVEXpress TurboMAX BTS

The TurboMAX BTS supports up to 3 TRX radios and provides high power output of 25 Watts. It provides a combination of high capacity and high power in a very compact form factor. interWAVE's TurboMAX

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BTS can support omni and sectorized cell site configurations. The TurboMAX BTS offers the service provider benefits of increased coverage, increased number of subscribers at high power level, greater reduction in transmission costs, and lower cell site costs per subscriber.

Download the Data Sheet for WAVEXpress TurboMAX BTS

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WAVE.GSN

interWAVE's WAVE.GSN (GPRS Support Node) is a cost effective, fully manageable product that is easily integrated with an existing GSM network to provide GPRS services in corporate and community networks. It offers a complete set of standard GPRS interfaces related to a GSN node. WAVE.GSN also supports its signaling and data interfaces over Frame Relay (FR) and SS7 or the Internet Protocol (IPv4) to provide seamless integration with packet-based networks. Plus, interWAVE's WAVE.GSN provides both local management capability with a GUI-based local manager and a remote management with an SNMP agent. The WAVE.GSN Local Manager implements GUI based statistics reporting, configuration management, alarms, status and user actions.

interWAVE's WAVE.GSN is a run time configurable to function as a Serving GPRS Support Node (SGSN), a Gateway GPRS Support Node (GGSN) or a combined GSN (SGSN + GGSN).

Download the Data Sheet for WAVE.GSN

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WAVEView OMC

The WAVEView OMC product is interWAVE's client/server Operations & Maintenance Center (OMC), a combined OMC-R and OMC-S, managing and provisioning GSM networks. As a result the WAVEView OMC provides total management of interWAVE's wireless access network elements in a uniform, efficient and cost-effective manner. As an Operations and Maintenance Center, it provides value-added management functions for interWAVE's Wireless networks.

Download the Data Sheet for WAVEView OMC

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mVIEW

Making Operations and Maintenance truly mobile, mVIEW is interWAVE's portable solution that offers all the power, capacity and features of interWAVE's conventional desk-designed WAVEView OMC system. mVIEW product provides portable network element management and provisioning for interWAVE's GSM, DCS or PCS wireless network elements. Targeted for mobile mission-critical wireless deployments, powered by UltraSPARC processors, the mVIEW offers the best performance ever in a portable UNIX workstation capable of supporting complete network management functions packaged on a laptop PC.

Download the Data Sheet for mVIEW

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802.WAVE

interWAVE's 802.WAVE is an innovative solution that combines WLAN access technology (802.11) with GSM/GPRS cellular to provide "anytime, anywhere" high-speed Internet and Intranet access. When configured to integrate with the GSM/GPRS cellular networks it provides the options for GSM SIM based authentication, roaming, and integrated billing. In addition to SIM based authentication, 802.WAVE supports a wide range of access methods including username and password access using EAP-MSCHPV2, EAP-MD5, or portal based radius authentication. It also supports prepaid options offering providers (cellular, wireline, or WISP operators) maximum flexibility. 802.WAVE solution set consists of Access Points (AP), Access Controllers (AC), Authentication Server (AS), Network Manage System (NMS), and Client Softward.

A key element of 802.WAVE is interWAVE's 802.AS (Authentication Server), which provides the gateway between the WLAN access network and the GSM core network elements. It combines fully functional GSM/GPRS cellular capabilities and RADIUS Authentication,

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Authorization and Accounting (AAA) services and functionalities into one system while having the ability to support wireline/WISP operators for their WLAN networks. This gives operators an extremely flexible and cost effective solution that bridges WLAN with either GSM/GPRS or wireless/WISP infrastructure, allowing these operators to serve users with WLAN enabled PC, PDA, or other devices.

Download the Data Sheet for 802.AS

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