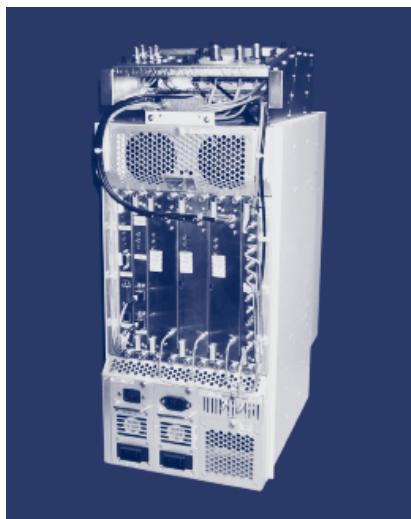


**WAVEXpress  
TurboMAX BS Plus**



The WAVEXpress TurboMAX BS Plus integrates the base station controller (BSC) and high-power base station (BTS) into a single chassis. It is a high-power, low-cost, compact solution to provide Wireless Local Loop (WLL), microcell 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.

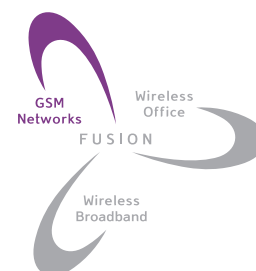
**Network Features**

Features	Capacity/Standard
Number of TRXs per BS Plus	Up to three internal (located inside the BS Plus chassis) Up to eight total (two internal and six external TRXs)
Number of BTSs per BS Plus	Up to four BTS nodes (one internal)
Traffic Capacity	37 Erlangs @ 2% Grade of Service
BTS Link	Abis Interface
BSC to MSC Link	GSM A-Interface
Frequency Band Supported	GSM 900/1800, 1900 MHz PCS network
Output Power	40W
RF Receiver Sensitivity	-109 dBm (w/o diversity)
Receive diversity supported	-111 dBm (with diversity)
Sectorization	Supported
GPRS	Hardware ready

**System Specifications**

Configurations	
Maximum Number of TRXs	Up to three internal; eight total (two internal and six external)
Maximum Number of BTSs	One internal; four total
Number of Trunk Ports	Up to six
Traffic Capacity	37 Erlangs @ 2% GOS <sup>1</sup>
Transmission	Star or Daisy Chain

Interfaces	
MSC	GSM Compliant A Interface
BTS	GSM Compliant Abis Interface
RF	GSM Compliant Air Interface; supports Phase 1, 2 or 2+ GSM and PCS Compliant Mobile Stations
Transmission	Dual Port G.703 compliant E1 75/120 Ohm Dual Port T1.403 compliant T1 100 Ohm
Ethernet	IEEE802.3; 10baseT
Serial	DB9 male connector supporting DCE Interface



# WAVExpress TurboMAX BS Plus

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### Radio

GSM RF Interfaces	GSM 900/1800 and PCS 1900
Power Control	Static: 12dB in 2dB steps
Rx Sensitivity	-109 dBm (w/o diversity) -111 dBm (with diversity)

### GSM Vocoding

Integrated TRAU	Supporting EFR or standard vocoding
Transcoding Capacity	Up to 64 Traffic Channels

### Electrical

Power Options	110/220 VAC, 50-60 Hz -48 VDC
Power Consumption	7.9 Amperes @ 115 VAC <sup>2</sup> 4.0 Amperes @ 230 VAC <sup>2</sup> 17.8 Amperes @ -48 VDC <sup>2</sup>
Mechanical Dimensions (HxWxD)	61 x 28 x 55 centimeters (24 x 11 x 22 inches)
Weight	40 kg (88 lbs)

### Environmental

Operating Environment	Temperature: -5 to 45°C Humidity: 10% to 90% (non-condensing)
Regulatory	ETS 300 609-1 (GSM11.21), ETS 300 342-2; CB Report; PCS 1900: FCC Part 15 and Part 24, and Industry Canada ICES-003 & RSS-133, and SRSP-510; NTRL/C

- Notes:** 1. Grade of Service  
2. Standard Configuration of three E1/T1 and two TRX cards

Specifications subject to change without notice  
This product is designed for professional installation only  
See [www.iww.com](http://www.iww.com) for the latest version of this data sheet

Effective Date: October 2002



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