# WAVEXpress BS Plus

INTERWAVE



The WAVEXpress BS Plus integrates the base station controller (BSC) and base station (BTS) into a single chassis. It provides wireless access to existing voice and data networks for cellular telephones, laptop computers, and many other mobile stations conforming to the GSM standard. The BS Plus combines all of the functionality of the BSC and the BTS making it the perfect solution to provide additional 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 plus one internal
Traffic Capacity		37 Erlangs @ 2% Grade of Service
BTS Link		Abis Interface
BSC to MSC Link		GSM A-Interface
WAVEXpress		
	Frequency Band	900 MHz GSM network, 1800 MHz DCS network, 1900 MHz PCS network
	Output Power	2W
	Receiver Sensitivity	-107 dBm
TurboWAVE Op	tion	
	Frequency Band	900 MHz GSM network, 1800 MHz DCS network
	Output Power	16W
	<b>Receiver Sensitivity</b>	-110dBm
GPRS		Hardware ready
System Speci	fications	
Configurations	i	
Maximum Number of TRXs		Up to three internal; 8 total (two internal plus 6 external)
Maximum Number of BTSs		1 internal; 4 total
Number of Trunk Ports		Up to 6
Traffic Capacity		37 Erlangs @ 2% GOS1
Transmission		Star or Daisy Chain
Interfaces		
MSC/BSC		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 BS Plus

Radio

**GSM RF Interfaces** 

**Power Control** 

**Rx Sensitivity** 

**GSM** Vocoding

Electrical

**Power Options** 

Mechanical

**Environmental** 

Regulatory

Weight

Integrated TRAU

**Transcoding Capacity** 

**Power Consumption** 

Dimensions (H x W x D)

**Operating Environment** 

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Notes: 1. Grade of Service

2. Standard Configuration of Three E1/T1 and Two TRX cards

GSM 900, DCS 1800, PCS 1900

Supporting Enhanced Full Rate or standard vocoding

Static: 12 dB in 2 dB steps

Up to 64 Traffic Channels

Optional redundant power supply

110/220 VAC 50-60 Hz

4.10 Amperes @ 115 VAC<sup>2</sup>

2.00 Amperes @ 230 VAC<sup>2</sup>

8.20 Amperes @ -48 VDC<sup>2</sup>

61 x 28 x 41 centimeters

Temperature: -5 to 45°C

Humidity: 10% to 90% (non-condensing)

and Industry Canada ICES-003 & CP-03

GSM 900 & DCS 1800: CB Report; EN550022,

NTR-4/10/11; IEC 950; Part 6; FCC Part 15 & Part 68

IEC1000-4; PCS 1900: FCC Part 15 Class A, NTRL/c; Telecom: E1: 120 Ohm CTR12/13; 75 Ohm

(24 x 11 x 16 inches)

20 kg (44lbs)

-107 dBm

-48 VDC

Specifications subject to change without notice This product is designed for professional installation only See www.iwv.com for the latest version of this data sheet

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