

WAVEXpress BTS



interWAVE's WAVEXpress BTS is a digital microcellular base transceiver station based on the ETSI GSM standard (and its DCS/PCS derivatives) for wireless cellular communications. 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. As a member of the interWAVE family of digital microcellular access and switching products, it provides wireless user connectivity to a base station controller (BSC), via the Abis interface. The WAVEXpress BTS lowers costs and increases service quality within any GSM, DCS, or PCS digital wireless network.

The TurboWAVE option enables macrocell level performance with the same chassis. It boosts the power output level to 8W or 16W and increases the receive sensitivity to achieve the balance between the transmission and reception of the radio link. It maximizes the flexibility of the BTS to adapt to changing network operation needs.

Network Features

Features	Capacity/Standard
Number of TRX per Chassis	Up to three TRX cards
Number of Traffic Channels	Up to 22 traffic channels
WAVEXpress	
Frequency Band	900 MHz GSM network, 1800MHz DCS network, 1900 MHz PCS network
Output Power	2W
Receiver Sensitivity	-107 dBm
TurboWAVE Option	
Frequency Band	900 MHz GSM network, 1800 MHz DCS network
Output Power	16W
Receiver Sensitivity	-110dBm
GPRS	Hardware ready

System Specifications

Configuration	
Maximum Number of TRX's	3
Maximum Number of Trunk Ports	2
Traffic Channels	Up to 22
Transmission	Dual Port G.703 compliant E1 75/120 Ohm Dual Port T1.403 compliant T1 100 Ohm
Ethernet	IEEE802.3; 10 BaseT
Serial	DB9 male connector supporting DCE interface
Electrical	
Power Options	110/220 VAC50-60 Hz AC -48 VDC Optional redundant power supply
Power Consumption	4.10 Amperes @ 115 VAC ¹ 2.00 Amperes @ 230 VAC ¹ 8.20 Amperes @ 48 VDC ¹

WAVEXpress BTS

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Mechanical

Dimensions (HxWxD) 61 x 28 x 41 centimeters
(24 x 11 x 16 inches)
Weight 20 kg (44 lbs)

Environmental

Operating Environment Temperature: -5 to 45°C
Humidity: 10% to 90% (non-condensing)
Regulatory GSM 900 & DCS 1800: CB Report; EN550022, IEC1000-4;
PCS 1900: FCC Part 15 Class A, NTRL/C; Telecom;
E1; 120 ohm CTR12/13: 75 ohm NTR-4/10/11; IEC 950;
Part 6; FCC Part 15 & Part 68
and Industry Canada ICES-003 & CP-03

Notes: 1. Standard Configuration of Three E1/T1 and Two TRX card

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

Effective Date: October 2002



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