

WAVEXpress/BTS

Base Transceiver Station

Configurations

Number of TRXs	Up to 3
Transmission	Star and Daisy Chain
Number of Trunk Ports	2
Traffic Capacity	13.5 Erlangs @ 1% GOS ¹ 14.6 Erlangs @ 2% GOS ¹

Interfaces

BSC	GSM Compliant Abis Interface
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

Radio

GSM RF Interfaces	GSM 900, DCS 1800, PCS 1900
Power Control	Static: 12dB in 2dB steps Dynamic : 12dB in 2dB steps
Rx Sensitivity	-106dBm -110dBm (TurboWAVE option)
Maximum Tx Output Power	2 watts 4, 8 or 16 watts (TurboWAVE option)

Electrical

Power Options	110/220 volts 50-60 Hz AC -48 volts DC Optional redundant power supply
Power Consumption	3.60 Amperes @115VAC ² 1.80 Amperes @230VAC ² 7.40 Amperes @48VDC ²

Mechanical

Dimensions (h x w x d)	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° noncondensing
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

¹ Grade Of Service (standard configuration)

² Standard Configuration of One E1/T1 and Three TRX cards



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WAVEXpress/BTS 1199 IW328905