INTERWAVE

WAVEXpress GSM Network In-A-Box (NIB)



interWAVE's GSM Network-In-A-Box (NIB) integrates all of the elements required for a complete GSM, DCS or PCS network into a single, compact chassis. Its functionality and cost point offer a rapid entry into smaller capacity markets and allow easy network expansion as capacity and coverage requirements increase. Its localized switching capability and compact size make it a cost effective solution ideally suited for enterprises, campuses, specialty networks, remote villages, or other community applications.

Network Features

2 Internal; 8 Total 1 Internal; 5 Total 2 for MSC and 2 for BSC (all E1 or all T1) 1000 subs @ 0.035Er/sub and 2% GOS ¹ 40Er @ 0.1% GOS ² 1500 BHCA Up to 60 (non-blocking) Star and Daisy Chain CAMEL Phase II based SSF Virtual A Interface GSM Compliant Um Air-Interface Abis-Interface, GSM spec. 08.58, 12.21 GSM A-Interface, GSM spec. 04.08, 08.08 GSM MAP-C, MAP-D and MAP-E interfaces, GSM spec. 09.02
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ITU/ANSI ISUP, ITU/ANSI ISDN PRI, R2, R2 Variants ³
GSM Compliant Abis Interface
GSM Compliant Air Interface; supports Phase I, II, II+ GSM and PCS compliant Mobile Stations
Dual Port G.703 compliant E1 75/120 Ohm Dual Port T1.403 compliant T1 100 Ohm
IEEE802.3; 10baseT
DB9 male connector supporting DCE Interface
TCP/IP over E1 or T1 timeslot or Ethernet Port
GSM 900, DCS 1800, PCS 1900
Abis Interface supporting EFR or FR
Static: 12 dB in 2 dB steps Dynamic: 12 dB in 2 dB steps
-107 dBm -110 dBm (TurboWAVE) -111 dBm (TurboMax)
2W (standard) 16W (TurboWAVE option)

WAVEXpress GSM Network-In-A-Box (NIB)

Electrical

Power Options

Power Consumption

Mechanical

Dimensions (HxWxD)

Weight

Environmental

Operating Environment

Regulatory

110/220 VAC 50-60 Hz -48 VDC Optional redundant power supply 4.10 Amperes @ 115 VAC⁴ 2.00 Amperes @ 230 VAC⁴ 8.20 Amperes @ 48 VAC⁴

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

Temperature: -5 to 45°C Humidity: 10 to 90% (non-condensing) GSM 900 & DCS 1800: CB Report; EN550022, IEC1000-4; PCS 1900: FCC Part 15 Class A, NRTL/C; Telecom: E1: 120 Ohm CTR 12/13; 75 Ohm NTR- 4/10/11; IEC 950: Part 6; FCC Part 15 & Part 68 and

Industry Canada ICES- 003 & CP-03

Notes: 1. Grade of Service at air interface

- 2. Grade of Service at trunk interface
- 3. List of variants available upon request
- 4. Standard Configuration of two E1/T1 and two TRX cards

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

Effective Date: June 2003

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