



interWAVE's WAVEXchange II is a large capacity GSM mobile switch. With the capacity up to 256 E1 ports and 100,000 subscribers, the WAVEXchange II can provide the operators a wide range of features, basic telephony services and value added services to grow their businesses. Its compact size minimizes the

space request and installation cost. The WAVExchange II contains complete GSM solution, including GMSC, Short Message Services, Prepaid Services, echo cancellers, and OMC. The WAVEXchange II contains MSC VLR, HLR, optional built-in echo cancellers, voice announcement server, optional prepaid server, and web based OMC. The user-friendly GUI simplifies the operation and maintenance process.

Network Features

Features

Trunks
 Call Processing
 Scalability
 Trunk groups
 HLR/VLR capacity
 Traffic
 Signalling Transfer Point
 14/24 bit Signaling Point Code (SPC) support
 Multiple Network Indicator (NI) support
 Optional built-in echo canceller
 Integrated VLR and MSC
 Optional centralized HLR/AuC
 Optional integrated SMSC
 Optional Prepaid Server
 Global Title Translation

Capacity

256 E1 ports
 200,000BHCA, 3000BHCA/E1
 16E1 to 256E1 in 8 E1 increment
 128
 200,000 subscribers/100,000 subscribers
 2500 Erlangs
 64 Signalling Links

Interfaces

SS7/TUP/ISUP/MAP
 R2 MFC (with a Protocol Converter)
 ISDN-PRI
 SNMP
 Ethernet

Configuration

Network management	SNMP based
Redundancy	Optional traffic load sharing (WAVTransit and LAN servers) Dual redundant power supplies Optional E1 card level redundancy Optional route redundancy

Features

Routing on call basis
 Signalling Transfer Point (STP)
 Gateway MSC
 128 E1 non-blocking switching
 Digit manipulation for call routing
 Flexible numbering plans
 Software downloadable from management center
 Module hot swap
 Voice Announcement Server
 Optional protocol converter
 Call Detail Record (CDR)

WAVEXchange II

Services

Telephony - Full Rate Speech
Queuing and Priority for Emergency Calls
Emergency Call Set-up
DTMF
Short Message Services
Supplementary Services
 Call Forwarding
 Call Hold
 Call Waiting
 Call Barring
 Line Identity Service
 Operator Determined Barring
 Call Transfer

Management

SNMP centralised management
RAS remote dial-in operation
Standard web browser GUI
Real time status monitoring and alarm log
Real time classified call statistics report with graphic layout
Program uploading to WAVETransit from LAN
Parameter maintenance for network devices
System data backup

Electrical

Voltage	100 to 120 VAC 220 to 240 VAC -48 DC
Frequency	47 to 63Hz, 0.4K VA
Power consumption	2A/200W (64+64 E1)

Mechanical

Dimensions (HxWxD)	WAVETransit 42U cabinet: 80 x 60 x 220 cm (31.5 x 23.6 x 86.6 in.) Transit Switch: 48.5 x 26.7 x 34.5 cm (19.1 x 10.5 x 13.6 in.)
Weight	Transit Switch: 16 kg (35 lbs)

Environmental

Operating Environment	Temperature: +50F to 95F (10C to 35C) Humidity: 40% to 80% relative (non-condensing)
Storage Environment	Temperature: -4F to +140F (-20C to +60C) Humidity: 30% to 90% relative (non-condensing)

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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