

Westica MBM2000

Flexible E1 Multiplexer



Typical project applications

- Cell site backhaul for fixed and rapid deployment of mobile networks, e.g. TETRA, Tetrapol, GSM
- Replacement of analogue radio links or analogue lines
- Cost effective private networks for enterprise, e.g. Oil & gas platforms
- Expedient provision of business services e.g. private circuits, leased lines
- Reliable and secure data networks for utilities, public service organisations and military users. e.g. Airfield Security, coastguards, electricity supply companies
- Provision of telephony and data services to remote sites

Overview

Now being installed in networks world-wide, the MBM2000 is an intelligent, modular and highly flexible, Add-Drop Multiplexer which provides a full range of audio, voice telephony (POTS) and digital data services to end users needing to interconnect and establish a link over an E1 circuit.

E1 interface makes the MBM2000 compatible with a large range of terminal devices (routers, switches etc) and transmission equipment. It is particularly suited to use with Westica's range of microwave radios, but connection to copper and fibre wireline networks is also possible. The main benefits to network planners are;

- Carrier grade Voice and Data integration in a small simple unit
- Cost effective Add-Drop capability, increases network efficiency
- Two aggregate interfaces give East and West transmission capability, thus enabling protected networks
- Modular High Density Service interfaces optimises multiplexer to application

Optimum Solution

The MBM2000 Add-Drop E1 Multiplexer is an easy to configure modular package based around a single 19" shelf including user slots for up to eight Service Delivery Modules (SDM's). Should more service delivery modules be required, expansion shelves can be added. The user traffic is fully configurable over either East or West transmission ports, with software configured flexibility permitting Add-Drop, Dual-Path Protection or Ring-Protection modes.

This compact yet advanced product also includes the following additional features;

- LCT port to access simple on-board software menu-selectable configuration and diagnostics system via a user laptop or VT-100 terminal
- On-board RTU feature, supporting up to two optional plug-in I/O modules for management of alarm and control states
- Multi-function port allowing daisy-chaining of co-located multiplexers
- Network management capabilities
- Operation in a range of network topologies including Point-to-Point, Point to Multipoint, Broadcast and Omnibus solutions
- External clock source interface



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About Westica

Westica provides robust and cost effective radio communications solutions for difficult terrains over distances between 250m to 60km, using digital point-to-point, wireless networks.

Currently focused on providing solutions at 1.4GHz which enables rapid deployment using simple antennas in adverse environments; Westica's solutions allow clients to quickly adopt affordable and reliable communications solutions that would otherwise be cost prohibitive due to terrain related infrastructure issues. Delivering innovative solutions that work in situations that would otherwise require expensive infrastructure investment, Westica enables clients to quickly achieve new revenue streams in situations that would be otherwise difficult to justify the capital investment.

For more information

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Product Family

The MBM2000 is part of a growing family of communications products designed to serve the needs of public network and commercial users. Other important network elements available include Westica's MRR800, MBR1000, MBR2000, MBR2200 and MBR4200 1.4GHz point-to-point radios, MFS2000 protection switch, MRM1500 X21 multiplexer, Video Codecs and nx2Mbit/s Cross Connect Switch. Please contact Westica for more information.

Specifications

Mechanical	Enclosure	1U ventilated enclosure
	Rack Practice	19" and ETSI rack– alternatives available
	Depth	185mm plus 35mm standback
	Weight	2kg (unpackaged) 3kg (packaged)
Power Requirements	Power Supply	18 to 72VDC positive or negative ground
	Power Consumption	Motherboard only 3.4W typical
		Audio service module 0.95W typical
		Data module 0.3W typical
	Power Connector	4-way slimline trident
	Connector (E1 Ports)	BNC 75ohm unbalanced
Connector (LCT Port)	1 x 9-way D Type Male	
Connector (M/F Port)	1 x RJ45 (RS232 or RS422)	
Status Indications		LEDs - 3 red and 3 green
RTU I/O Modules	Provision for 2 modules:	
	8 Port NMS Module	15 way high-density D connector (female)
	4 Port Alarm Output Module	15 way high-density D connector (female) 4off, change over contacts, 30VA rating
Service Modules	Provision for 8 modules:	
	Separate Data Sheets Available from Westica	Single Channel Asynchronous Data Interface
		Dual Channel Asynchronous Data Interface
		Dual 4 Wire Audio Module with E&M
		Engineer Order Wire (EOW) Interface
		FXO Telephone Subscriber Service Interface (UK specification only)
		FXS Telephone Subscriber Service Interface (UK specification only)
		10BaseT Ethernet Bridge Interface
Single Channel X.21 Data Interface		
Environmental		ETS 300 386-1
Safety		Complies with BS EN 6050

As an ongoing process of research and development, Westica Limited reserve the right to change the specifications outlined above without notice.