



mediaband

# MediaBand-8/16/32



The MediaBand-8/16/32 interfaces to 8, 16 or 32 E1 or T1 circuits and delivers these clear trunks transparently across a fiber link. V.35 and X.21 interfaces are also available.

## Features

- ▶ The same fiber can be used to simultaneously transport Ethernet services.
- ▶ Optional second fiber link for automatic resilience
- ▶ Removable internal AC/DC power supply
- ▶ Optional hot-swappable second load sharing AC/DC supply for resilience
- ▶ Remotely manageable via Ethernet ports
- ▶ Cascade chassis and other MediaBand products down the same fiber
- ▶ Intuitive graphical manager – no DIP switches
- ▶ Real-time Events & Alarms
- ▶ Robust, reliable and professional quality

## Specifications

|                          |  |
|--------------------------|--|
| TDM port (E1)            | (8-32) RJ45 connectors<br>Presents as DCE (crossed cable for DTE)<br>120 Ohm<br>75 Ohm user-selectable via converter cable<br>G.703 unstructured<br>HDB3<br>Transparent to user signalling   |
| TDM port (T1)            | (8-32) RJ45 connectors<br>Presents as DCE (crossed cable for DTE)<br>100 Ohm<br>Unframed G.703 1.544Mbps<br>B8ZS or AMI selectable<br>Transparent to user signalling   |
| X.21 and V.35 Interfaces | 8 port and 16 port card.<br>Specify interface type at time of ordering<br>Speeds 64kbps to 2.048Mbps<br>HDML connectors<br>Converter cables to V.35 MRAC/DB25<br>Converter cables to X.21 DB15<br>V.35 signals; Tx, Rx, S (Tx), S (Rx), Ext Clock, DCD, CTS, RTS, DTR, DSR<br>X.21 signals; Tx, Rx, S, C, I      |
| Ethernet Interfaces      | (2) SFP cage (module not supplied)<br>for various fiber modes<br>2 x RJ45 UTP<br>10/100/1GE<br>Auto-sensing or manual  |
| Local Management Port    | RJ12<br>Asynchronous<br>Auto-sensing to 115kbps<br>Also remote access via Ethernet port  |
| Oscillator Performance   | Hold-over 24hrs 15ppb<br>Aging per day 10ppb<br>Temperature Stability 12ppb  |
| IP & MAC Address         | Single MAC address, IP address, subnet mask.   |
| Configuration            | Held in non-volatile memory  |
| Realtime Clock           | For time-stamping Events and Alarms  |
| Events & Alarms          | Held in non-volatile memory FIFO<br>Automatically sent to DbManager  |
| Power (AC)               | MediaBand-32 supports 1 or 2 supplies these are hot swappable to ATCA spec. 1 Supply can power a fully populated MediaBand.<br>AC<br>Auto-sensing 96VAC – 240VAC<br>Max consumption 0.5A RMS @230VAC<br>DC<br>4mm terminal Block<br>36VDC tp 57VDC<br>1.2A max-33VDC to -75VDC<br>0.35A max<br>MTBF 1,790,000hrs |
| Safety                   | EC EN60950-1:2002<br>ACA TS001:1997<br>ACS/NZ60950:2000<br>AS/NZS3260:1993<br>IEC950   |
| Dimensions               | <b>Width:</b> 17.25" [438 mm]<br><b>Depth:</b> 12.6" [320 mm]<br><b>Height:</b> 3.46" [88 mm]  |
| Environment              | Operating Temperature -20°C to +55°C<br>Humidity 10-90% non-condensing   |
| Warranty                 | 1 year hardware & software   |

## Ordering Information

### \*MB-8-AC

8 Port T1/E1 converter with 2 SFP cages plus 2 10/100/1000Mbps RJ45 ports for Ethernet transport and management. Includes 19" rack mount ears, serial control cable and DbManager Lite. AC Power.

### \*MB-8-DC

8 Port T1/E1 converter with 2 SFP cages plus 2 10/100/1000Mbps RJ45 ports for Ethernet transport and management. Includes 19" rack mount ears, serial control cable and DbManager Lite. DC Power.

### MB-16-AC

16 Port T1/E1 converter with 2 SFP cages plus 2 10/100/1000Mbps RJ45 ports for Ethernet transport and management. Includes 19" rack mount ears, serial control cable and DbManager Lite. AC Power.

### MB-16-DC

16 Port T1/E1 converter with 2 SFP cages plus 2 10/100/1000Mbps RJ45 ports for Ethernet transport and management. Includes 19" rack mount ears, serial control cable and DbManager Lite. DC Power.

### MB-32-AC

32 Port T1/E1 converter with 2 SFP cages plus 2 10/100/1000Mbps RJ45 ports for Ethernet transport and management. Includes 19" rack mount ears, serial control cable and DbManager Lite. AC Power.

### MB-32-DC

32 Port T1/E1 converter with 2 SFP cages plus 2 10/100/1000Mbps RJ45 ports for Ethernet transport and management. Includes 19" rack mount ears, serial control cable and DbManager Lite. DC Power.

## Optional Accessories (sold separately)

### PB/cont

Replacement serial controller cable

### PB/cpack/8P

Cable Pack for 8 E1/T1 RJ45 2m.

### PB/cpack/75BNC/01

120 Ohm RJ45 to 75 Ohm dual BNC conversion cable 20cm

### PB-MB-PSU-AC

Additional AC Power Supply for 2 RU PacketBand or MediaBand Chassis

### PB-MB-PSU-DC

Additional DC Power Supply for 2 RU PacketBand or MediaBand Chassis

\*Please Note:  
MB-8 models are not expandable beyond 8 T1/E1 circuits