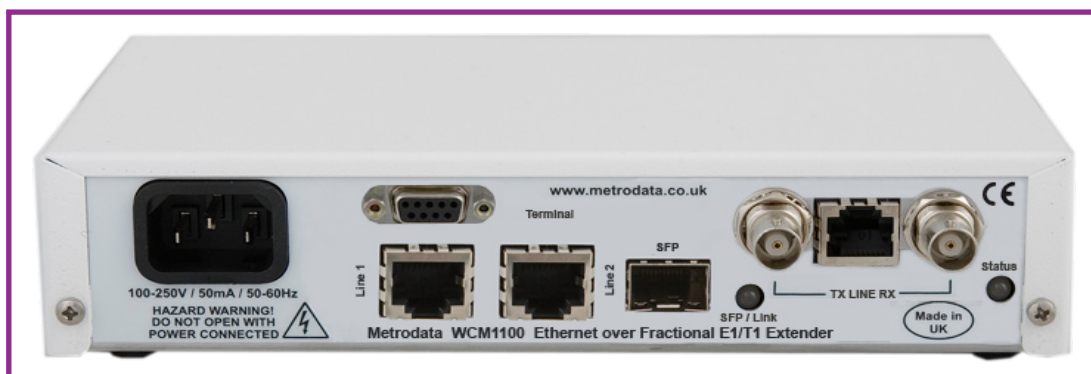


- LAN extension over Clear-Channel or Fractional E1/T1 services
- Dual RJ45 plus single SFP flexible media port, offering local Switched Ethernet connections up to 1Gbps
- Link state forwarding
- Jumbo Frame Support (10kbyte)
- 802.3ah OAM support, with IP proxy over OAM mode
- 802.1q VLAN support (pass-through and tag switching)
- 802.1p priority queuing (4 queues)
- RSTP support
- SSH & TACACS+ for secure authentication
- Telnet & SNMP Management (Local & Remote)
- Extensive Statistics & Performance monitoring
- Integral auto-sensing AC (110V-250V) or -48VDC PSUs
- 'Zero-touch' installation facility with advanced IP proxy management option for ease-of-use



WCM1100 Managed LAN Extender over Fractional E1/T1 circuit

The WCM1100 is a member of the MetroCONNECT family, offering Managed local Ethernet Switching at up to 1Gbps and LAN extension over either Clear-Channel or Fractional E1 / T1 wide area links. The WCM1100 supports auto negotiation and auto MDI/MDI-X cross-over switching on two RJ45 LAN interfaces. A further LAN interface is provided via an SFP port, offering either an additional RJ45 connection or a variety of multi-mode and single-mode fibre interface options.

Link State Forwarding is supported, whereby an E1 fault will automatically force a link down on the user ports to indicate to the attached devices that there is a link problem. The transmission of Jumbo frames is supported, with internal packet buffering used to smooth out bursty traffic without packet loss.

Ethernet Link OAM (802.3ah) is supported, enabling the Ethernet service to be managed and monitored right up to the customer delivery point. Forthcoming software developments will add support for LACP, 802.1ag and Y.1731 OAM standards.

In line with all other members of the MetroCONNECT Ethernet Service Delivery family, the WCM1100 supports Metrodata's 'zero-touch' installation process, minimising both on-site installation time and the Engineering skills required. Our unique 'IP proxy over OAM' functionality reduces on-site installation to a 'plug and play' exercise, simply checking that Ethernet link-up LEDs indicate correct physical connectivity. Comprehensive Telnet and/or SNMP remote management is available to the device via an IP proxy process across Layer-2 OAM traffic from an MC12000 Service Delivery chassis or another MetroCONNECT family device at the network centre, with no need for layer-3 (IP) parameters to be assigned locally. If required, individual configuration can be subsequently downloaded via TFTP.

Management is offered using OAM, SNMP or Telnet, either locally via any of the available subscriber ports or remotely over a WAN connection. With VLAN support enabled, management access is enabled individually on a per port basis to provide secure access to the unit.

The WCM1100 supports VLAN in two ways. In normal mode, VLAN tagged frames are passed unmodified; however when VLAN support is enabled, the WCM1100 supports VLAN tag-based switching whereby access may be controlled using VLAN IDs. The unit is password protected for Telnet access for security, and for SNMP is configured with a primary and multiple back-up NMS stations. SNMP access will only be accepted from an authorized NMS.

Compatibility:

- Unframed HDLC mode for use with the WCM1000 product.
- Single-ended Cisco HDLC mode for use with Cisco routers.
- GFP mode for use with LAN Extension Aggregation equipment.

Specifications

WCM1100 Subscriber Port Specs		WCM1100 WAN Port Specs	
Port	2x 10/100/1000baseT port with auto-negotiation and Jumbo frame support	Mode	Fractional E1 or T1
Interface	RJ45 (Auto Crossover MDI/MDIX)	Presentation	E1 75 ohm dual BNC, E1 120 ohm RJ45, T1 100 ohm RJ45
Operating modes	Auto Negotiate, 10M, 100M, 1000M	Line Rate	E1 2.048 Mbps, T1 1.544 Mbps
LEDs	Full Duplex, Half Duplex Link Activity, Speed	Timing	Internal or loop
1000Base-X Fibre Interface		Encapsulation	HDLC, GFP G.8040
SFP Port Interface	IEEE802.3z 1000Base-X Dual LC	Compliance & Approvals	
SFP 1000Base SX		Safety	EN60950, IEC-60825-1 (Class I Laser Eye Safety)
Wavelength	850nm Multimode	EMC	EN55022, EN50082
Max Rx input power	0 dBm	Environment	
Rx sensitivity	-17 to 0 dBm	Temp	0 to 50 deg C
Optical loss budget	7.5dB (550m)	Humidity	0 - 95% RH, non condensing
Tx power	-9.5 to -3 dBm	Pressure	86 - 100 KPa
SFP 1000Base LX		Storage Temp	-40 to 100 deg C
Wavelength	1300nm Singlemode	Power supply	
Max Rx input power	0 dBm	-48VDC	-36 to -72 VDC, 125 - 65mA
Rx sensitivity	-17 to 0 dBm	AC Mains	100 - 250 VAC 50 - 60 Hz, 60 - 25mA
Optical Loss budget	9.5dB (10km)	Power consumption	6 watts approx when operating
Tx power	-9.5 to -3 dBm	Packaging	
		Type	Modem, 1U high without feet
		Dimensions (W x D x H mm)	
		Rackmount	202 x 132 x 44 (without feet)
		Tabletop	202 x 132 x 48 (with feet)

Order codes

Product	100 - 250 VAC	-48 VDC
WCM1100	80-70-542	80-71-542
SFP 1000baseSX	80-31-011	80-31-011
SFP 1000baseLX	80-31-031	80-31-031
1U 2 Unit Rackmount Kit	80-05-256	80-05-256
6U 18 unit Rackmount Kit	80-05-250	80-05-255