

- LAN extension over Clear-Channel or Framed E3/DS3 services
- Dual RJ45 plus 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



**WCM3100 Managed LAN Extender over Framed E3/DS3 circuit**

The WCM3100 is a member of the MetroCONNECT family, offering Managed local Ethernet Switching at up to 1Gbps and LAN extension over a framed E3/DS3 wide area link. The WCM3100 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 faults on the uplink port 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 WCM3100 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.

The WCM3100 supports VLAN in two ways. In normal mode, VLAN tagged frames are passed unmodified; however when VLAN support is enabled, the WCM3100 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 authorised NMS.

### Compatibility:

- Unframed HDLC mode for use with the WC3445 product.
- Single-ended Cisco HDLC mode for use with Cisco routers.
- GFP mode for use with LAN Extension Aggregation equipment

## Specifications

WCM3100 Subscriber Port Specs		WCM3100 WAN Port Specs	
Port	2x 10/100/1000baseT port with auto-negotiation and Jumbo frame support	Mode	Framed E3 or DS3
Interface	RJ45 (Auto Crossover MDI/MDIX)	Presentation	E3 75ohm dual BNC, DS3 75ohm dual BNC
Operating modes	Auto Negotiate, 10M, 100M, 1000M	Line Rate	E3 34.368Mbps DS3 44.736Mbps
LEDs	Link Activity, Speed	Timing	Internal or loop
<b>1000Base-X Fibre Interface</b>		Encapsulation	HDLC, GFP G.8040
SFP Port	IEEE802.3z 1000Base-X	<b>Compliance &amp; Approvals</b>	
Interface	Dual LC	Safety	EN60950, IEC-60825-1 (Class I Laser Eye Safety)
<b>SFP 1000Base SX</b>		EMC	EN55022, EN50082
Wavelength	850nm Multimode	<b>Environment</b>	
Max Rx input power	0 dBm	Temp	0 to 50 deg C
Rx sensitivity	-17 to 0 dBm	Humidity	0 - 95% RH, non condensing
Optical loss budget	7.5dB (550m)	Pressure	86 - 100 KPa
Tx power	-9.5 to -3 dBm	Storage Temp	-40 to 100 deg C
<b>SFP 1000Base LX</b>		<b>Power supply</b>	
Wavelength	1300nm Singlemode	-48VDC	-36 to -72VDC, 125 - 65mA
Max Rx input power	0 dBm	AC Mains	100 - 250 VAC 50 - 60 Hz, 60 - 25mA
Rx sensitivity	-17 to 0 dBm	Power consumption	6 watts approx when operating
Optical Loss budget	9.5dB (10km)	<b>Packaging</b>	
Tx power	-9.5 to -3 dBm	Type	Modem, 1U high without feet
		<b>Dimensions (W x D x H mm)</b>	
		Rackmount	202 x 132 x 44 (without feet)
		Tabletop	202 x 132 x 48 (with feet)

## Order codes

Product	100 - 250 VAC	-48 VDC
WCM3100	80-70-543	80-71-543
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