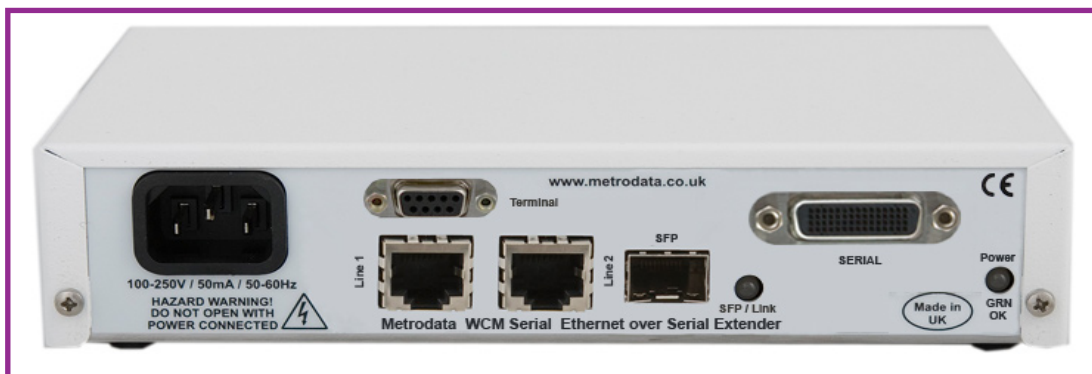


- LAN extension over Serial WAN services at up to 15Mbps
- Dual RJ45 plus single SFP flexible media port, offering local Switched Ethernet connections up to 1Gbps
- Link state forwarding
- Jumbo Frame Support (10kbyte)
- 802.3ah OAM Support, with IP proxy over OAM mode
- 802.1q VLAN support (pass-through 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



WCM_Serial Managed LAN Extender over Serial Services

The WCM_Serial is a member of the MetroCONNECT family, offering Managed local Ethernet Switching at up to 1Gbps and LAN extension over serial services. Support is offered for fractional (including Nx 64Kbps) X.21, V.35 and EIA-530 services up to 15Mbps and for RS232 services up to 256Kbps. The WCM_Serial 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 WCM_Serial 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

MetroCONNECT WCM_Serial

Managed LAN Extender over Serial WAN services

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 WCM_Serial supports VLAN in two ways. In normal mode, VLAN tagged frames are passed unmodified; however when VLAN support is enabled, the WCM_Serial 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:

GFP mode for use with LAN Extension Aggregation equipment

Specifications

WCM_Serial Subscriber Port Specs		WCM_Serial WAN Port Specs	
Port	2x 10/100/1000baseT port with auto-negotiation and Jumbo frame support	Interface	Cisco compatible Serial
Interface	RJ45 (Auto Crossover MDI/MDIX)	Presentation	60 way Female D Type
Operating modes	Auto Negotiate, 10M, 100M, 1000M	Line Rate	15Mbps (max)
LEDs	Link Activity, Speed	Cabling examples	Use CABX21-MT for connection to X.21 NTU Use CABV35-MT for connection to V35 NTU
1000Base-X Fibre Interface		Compliance & Approvals	
SFP Port	IEEE802.3z 1000Base-X	Safety	EN60950, IEC-60825-1 (Class I Laser Eye Safety)
Interface	Dual LC	EMC	EN55022, EN50082
SFP 1000Base SX		Environment	
Wavelength	850nm Multimode	Temp	0 to 50 deg C
Max Rx input power	0 dBm	Humidity	0 - 95% RH, non condensing
Rx sensitivity	-17 to 0 dBm	Pressure	86 - 100 KPa
Optical loss budget	7.5dB (550m)	Storage Temp	-40 to 100 deg C
Tx power	-9.5 to -3 dBm	Power supply	
SFP 1000Base LX		-48VDC	-36 to -72VDC, 125 - 65mA
Wavelength	1300nm Singlemode	AC Mains	100 - 250VAC 50 - 60 Hz, 60 - 25mA
Max Rx input power	0 dBm	Power consumption	6 watts approx when operating
Rx sensitivity	-17 to 0 dBm	Packaging & Dimensions (WxDxH mm)	
Optical Loss budget	9.5dB (10km)	Type	Modem, 1U high without feet
Tx power	-9.5 to -3 dBm	Rackmount	202 x 132 x 44 (without feet)
		Tabletop	202 x 132 x 48 (with feet)

Order codes

Product	100 - 250 VAC	-48 VDC
WCM_Serial	80-70-545	80-71-545
1U 2 Unit Rackmount Kit	80-05-256	80-05-256
6U 18 unit Rackmount Kit	80-05-250	80-05-255
SFP	Part Number	
1Gbps MM 550m 850nm	80-31-011	
1Gbps SM 10km 1300nm	80-31-031	