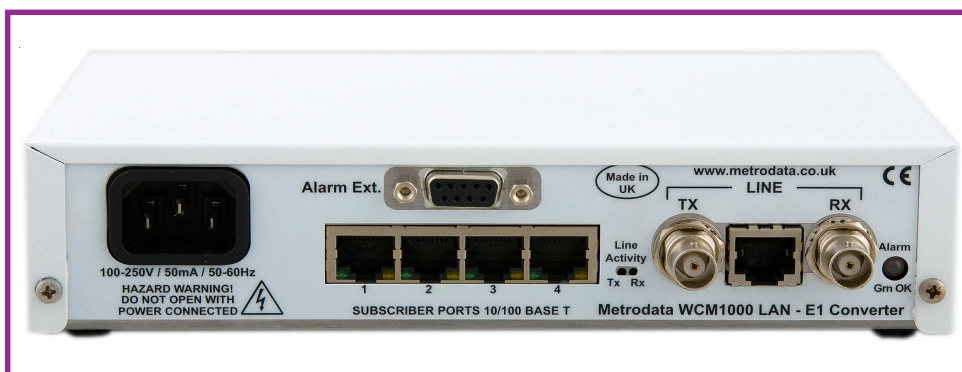


# WCM1000

LAN Extender over E1 line  
with SNMP management



- Feature rich LAN extension over E1 leased line links
- Four auto-negotiating subscriber 10/100 BaseT ports
- Quad port Ethernet switch on subscriber side
- Auto MDI/MDIX switching on all subscriber ports
- Wire speed local switching between subscriber ports
- Wire speed filtering of local packets
- SNMP Management (Local & Remote)
- Native VLAN support
- Extensive Statistics & Performance monitoring
- Alarm Extension relay
- Integral auto-sensing PSU, optional integral -48VDC supply



WCM1000 rear view

The WCM1000 extends a LAN connection over an E1 wide area link. The WCM1000 is a manageable member of the *WAN-in-a-Can* product family. The integrated 4-port LAN switch supports local switching, thereby removing the need for external switches or hubs in smaller LAN installations. Full wirespeed switching and filtering between the 10/100 BaseT LAN ports is supported so that only packets destined for the remote site are forwarded over the link. The WCM1000 offers an E1 interface for connection to an E1 link to a remote site. The subscriber ports are auto-negotiating and support both 10M and 100M in full or half duplex modes. Manual selection of speed and duplex mode enables connection to fixed port routers. Cabling issues are minimised through the use of automatic MDI/MDIX switching on these ports. The highly efficient HDLC encapsulation of packets ensures that maximum throughput is achieved on the WAN link. Internal packet buffering enables the WCM1000 to smooth out bursty traffic without packet loss.

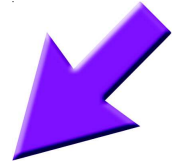
Management is offered using either SNMP or Telnet, either locally via any of the available subscriber ports or remotely over a WAN connection. With VLAN support enabled, management access is enabled individually on a per port basis to provide secure access to the unit. Using SNMP, a network manager will have full GET/SET access to all configurable MIB items, and will have access to all statistics and other performance monitoring items including alarms. Separate communities will be supported for GET/SET and TRAP access. The LAN ports will be supported per RFC-1213 MIB-2, whilst the E1 port will operate according to RFC-1406. Unsolicited trap generation will be according to MIB RFC-1215. Additional parameters and traps will be supported via the Metrodata Enterprise MIB.

The WCM1000 supports VLAN in two ways. In normal mode, VLAN tagged frames are passed unmodified; however when VLAN support is enabled, the WCM1000 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.

WCM1000

datasheet

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Specifications

WCM1000

datasheet

WCM1000 Subscriber Port Specs		WCM1000 WAN Port Specs	
No of Ports	4	Mode	E1
Presentation	10/100BaseTX, RJ45, Auto MDI/MDI-X	Presentation	75 ohm BNC or 120 ohm RJ45
LED support	Link/Activity & Speed	Line rate	2.048 Mbps
Operating mode	Auto-negotiate for 10/100, Full or Half Duplex	Frame mode	Unframed
Port filtering rate	148810 packets/second	Timing	Internal/loop
Port switching rate	148810 packets/second	Encapsulation	HDLC
MAC address table	4096 entries	Max packet rate	4064
Min/Max packet size	64 bytes / 1536 bytes	LEDs	Tx/Rx Packet, Alarm
LAN protocol support	TELNET, SNMP V1	Alarms	LOS
<b>Environment</b>		Diagnostics	External loop
Temp	0 - 50 deg C	<b>Power supply</b> <b>WCM1000 Part No</b>	
Humidity	95% RH, non-condensing	Power 100-250 VAC	80-70-541
Pressure	86-106 KPA	Power -48VDC	80-71-541
<b>Power supply options</b>			
-48VDC Supply	-40 to -72 VDC, 150 - 85 mA		
AC Mains	100-250 VAC, 50-400 Hz, 60 - 25 mA, IEC connector		
Power Consumption	6 watts approx when operating		
<b>Compliance &amp; Approvals</b>			
Safety	EN 41003, EN60950		
EMC	EN55022, EN50082		

About Metrodata

Founded in 1989 and based near London's Heathrow airport, Metrodata is a leading designer and manufacturer of datacommunications hardware for Fixed line, Satellite, Enterprise and Carrier networks. Specialising in interoperability and interconnectivity, Metrodata offers a range of Standard, Niche and System Integrated type products. These include Media converters, Interface converters, Fibre converters, Ethernet extenders and ATM switching and Circuit emulation products. Other specialist products manage high data rates and clock sensitive applications to ensure higher network performance. Metrodata provides COTS products to the commercial, government and defence sectors, as well as developing turnkey products to specific customer requirements.

For more data on Metrodata products, visit our website at [www.metrodata.co.uk](http://www.metrodata.co.uk)  
 Metrodata reserves the right to change specifications without notice.  
 Please check when ordering.

