

WAN-in-a-CAN WC1000

LAN Extender over E1 line



- Feature rich LAN extension over E1 leased line links
- Quad port Ethernet switch on subscriber side
- 4 Auto-negotiating subscriber 10/100 BaseT ports
- Auto MDI/MDIX switching on all subscriber ports
- Wire speed local switching between subscriber ports
- Wire speed filtering of local packets
- Integral auto-sensing PSU, optional integral -48VDC supply

WAN-in-a-CAN
WC1000



datasheet

The *WAN-in-a-Can* range of LAN extender products extend LAN connection over a wide area link. 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 WC1000 supports an E1 leased line link to a remote site.

The WC1000 requires no configuration in most installations, and is truly "plug and play". The subscriber ports are auto-sensing and support both 10M and 100M in full or half duplex modes. Manual selection of 100M FD operation enables connection to fixed port routers. Cabling issues are minimised through the use of automatic MDI/MDIX selection on these ports.

The highly efficient HDLC encapsulation of packets ensures that maximum throughput is achieved on the WAN link. Internal packet buffering enables each *WAN-in-a-Can* product to smooth out bursty traffic without packet loss.

Different *WAN-in-a-Can* models support E1, E3 and DS-3 leased line links, and also serial X.21 and V.35 connections. For further information on the model range please see the *WAN-in-a-CAN* family data sheet.



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 information and data on Metrodata products, visit our web site at www.metrodata.co.uk

Specifications

WC1000 Subscriber Port Specs		WC1000 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
Switch mode	Any to any	Max packet rate	4064
MAC address table	4096 entries	LEDs	Tx/Rx Packet, Alarm
Min/Max packet size	64 bytes / 1522 bytes	Alarms	LOS
Environment		Diagnostics	External loop
Temp	0 - 50 deg C	Power supply	Part Numbers
Humidity	95% RH, non-condensing	100-250 VAC	80-05-541
Pressure	86-106 KPA	-48VDC	80-21-541
Power supply options			
-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		

Setting-up WC1000

The WC1000 is set-up for use using an 8-way dip-switch mounted on the base panel. The set-up options are shown in the table below.

Bit-switch	Control	On	Off
1	Timing Mode	Internal	Loop
2	E1 Port select	BNC	RJ45
3	Loopback Test	None	Remote
4			
5			
6			
7	LAN Mode	100M FD	Auto-negotiate
8	Auto MDI/MDIX	Disabled	Enabled

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Metrodata reserves the right to change specifications without notice.

Please check when ordering.

