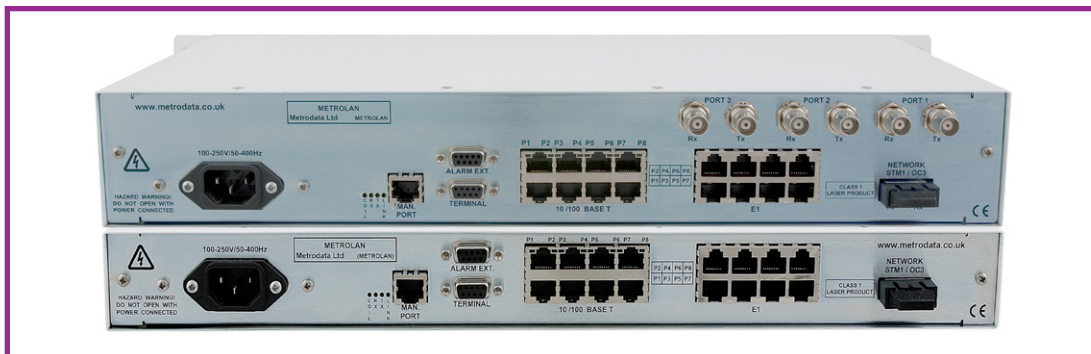


- Connects up to 8 remote LAN destinations
- Downlinks: 8 x 10/100BaseT
- Virtual concatenation down to VC-12
- 8 x E1/T1 ports mapped into VC-12
- Uplink: 1 x STM-1
- GFP framing with LCAS support
- SNMP remote management
- Optional 3 x E3/DS-3 port mapper module



**MetroLAN1000 & MetroLAN2000 10/100BaseT over SDH**

The Metrodata MetroLAN offers the capability of extending multiple LAN segments across an SDH network. Initially two model variants are offered. These are MetroLAN-1000 offering LAN + E1/T1 transport; and MetroLAN-2000 with additional E3/DS-3 transport.

The MetroLAN presents LAN ports as fully auto-sensing 10/100BaseT interfaces with manual override, thereby supporting any LAN network infrastructure. The MetroLAN offers 8 independent LAN interfaces, each of which may be transported to a remote location via the SDH infrastructure.

Generic Framing Procedure (GFP) encapsulation along with virtual concatenation with VC-4, VC-3 or VC-12 granularity and LCAS support offers maximum benefit to both service providers and users in terms of flexibility and bandwidth optimisation. The MetroLAN supports 8 independent GFP sessions, each of which may be directed to separate remote destinations.

The MetroLAN supports IEEE 802.3x flow control on all 10/100 ports to prevent traffic loss when reduced bandwidth is available. Full wire speed forwarding on any GFP session requires 50 VC-12 tributaries. The remaining bandwidth is available to other GFP sessions enabling the full 155Mbps to be utilised.

The MetroLAN supports large frames of up to 4096 bytes and is protocol and payload transparent. The MetroLAN will pass VLAN tagged frames, including "Q in Q" double tagged frames and CISCO ISL, transparently end to end. To further optimise network utilisation the MetroLAN offers 8 E1/T1 G.703 clear channel ports. Each E1/T1 may be mapped into an individual VC-12 for mapping into the remaining SDH payload.

The management of the MetroLAN is either local via the console port or remote via the Ethernet management port using SNMP or Telnet. Both console and Telnet access methods are password protected. Performance statistics are available for all ports. Access via the overhead data link is offered for integration into standard network management schemes. SNMP Version 1 is supported, including MIB-2 and traps. SNMP traps will be generated based on alarms for any of the network or user ports. TFTP download of software and configuration data is supported as a means of future-proofing the products.

A pair of changeover relays indicate alarm conditions arising on the MetroLAN. The Major alarm relay is energised for

normal operation to ensure that a fault is signalled in the event of power failure. The MetroLAN-1000 is a compact unit requiring 1U in a 19" rack. The MetroLAN-2000 is a 1.5U unit. The integral PSU is fully auto-sensing from 100 to 250 VAC, and -48VDC powered versions are available.

The MetroLAN-2000 variant includes an additional E3/DS-3 mapping module which enhances the basic MetroLAN product by means of its ability to map up to 3 E3/DS-3 interfaces into the SDH payload. It offers clear channel transport of E3 or DS-3 over SDH.

### Specifications

OC-3/STM-1 Network Port (Uplink)		Power supply	
Presentation	Duplex SC Fibre Transceiver	-48VDC	-40 to -72VDC, 1000 - 500mA
Fibre Options	Multi-mode (11dB), Single-mode Short Haul (15dB), Single-mode Long Haul (29dB)	AC Mains	100 - 250 VAC 50 - 400 Hz, 400 - 200mA
Framing	SDH STM-1	Power consumption	Less than 40 watts
10/100BaseT User Ports (Downlink)		Configuration & Management	
Presentation	8 x RJ45, automatic MDI/MDIX cross-over switching	Type	Menu driven user interface
Mode	10/100BaseT, auto-negotiate, manual	Access	Local console, Telnet, SNMP
Support	10Mbps, 100Mbps, Half or Full Duplex	Interface	V.24 Terminal, User port, Network port
Flow Control	Full duplex IEEE 802.3x Pause Frame	Security	Access by two level password
Max frame size	4096 bytes	System	Non-volatile configuration
Mapping	GFP with LCAS & VCAT to VC-4, VC-3 or VC-12	Environment	
LED Support	Link, Activity	Temp	0 to 50 deg C
8 x E1/T1 User ports (Downlink)		Humidity	0 - 95% RH, non condensing
Presentation	8 x RJ45, (NT)	Pressure	86 - 100 KPa
Mode	Clear channel	Compliance & Approvals	
Timing	Internal, Loop, Through, Network	Safety	EN60950
Mapping	To VC-12	EMC	EN55.22, EN50082
Alarms	LOS, AIS	Management	RFC-1213 MIB-2, RFC-1215 Traps
3 x E3/DS3 User port (Downlink)		Conformance	
Presentation	3 x BNC, 75ohm	ITU G.707 VCAT, ITU G.7041 GFP, ITU G.7042 LCAS	
Mode	Clear Channel		
Timing	Internal, Loop, Through, Network		
Mapping	To VC-3		
Alarms	LOS, AIS		

### Order codes

Product	Fibre Option	100 - 250 VAC	-48 VDC	Dimensions (W x D x H mm)
MetroLAN1000	Multi-mode	80-12-300	80-24-300	1U, 19" rackmount (435 x 213 x 44)
MetroLAN1000	Single-mode short haul	80-12-301	80-24-301	1U, 19" rackmount (435 x 213 x 44)
MetroLAN1000	Single-mode long haul	80-12-302	80-24-302	1U, 19" rackmount (435 x 213 x 44)
MetroLAN2000	Multi-mode	80-12-310	80-24-310	1.5U, 19" rackmount (435 x 213 x 66)
MetroLAN2000	Single-mode short haul	80-12-311	80-24-311	1.5U, 19" rackmount (435 x 213 x 66)
MetroLAN2000	Single-mode long haul	80-12-312	80-24-312	1.5U, 19" rackmount (435 x 213 x 66)