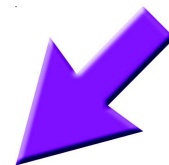
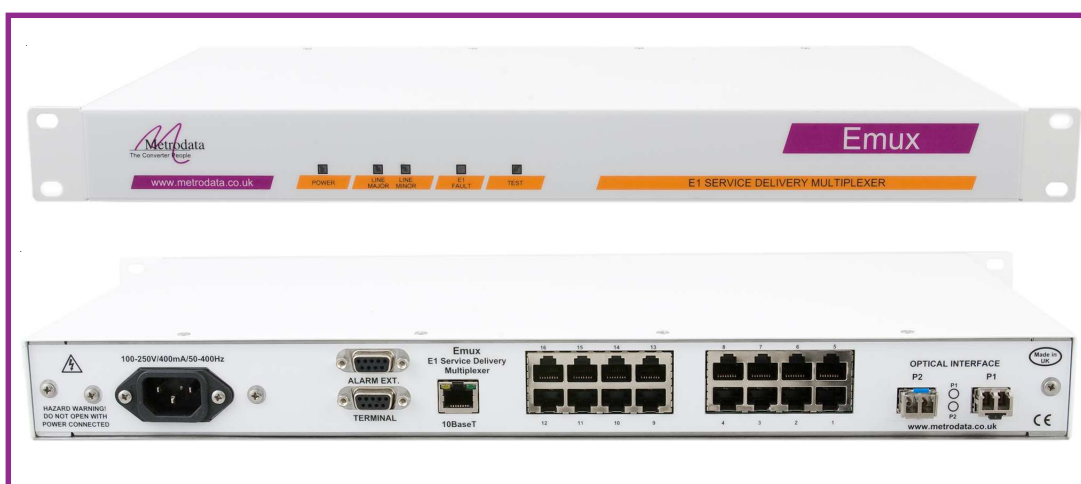


Emux

E1 Service Delivery Multiplexer



- 4, 8 or 16 E1 interfaces
- Dual 1+1 Optical Line interface using SFP(LC)s
- 1U 19" rack mount unit
- Extensive diagnostic and test capabilities
- SNMP Management (Local & Remote)
- G.821 performance analysis
- Extensive statistics & performance monitoring
- Integral auto-sensing PSU, optional integral -48VDC supply



Emux front & rear views

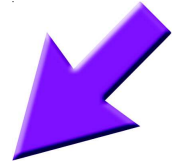
The Metrodata Emux E1 Service Delivery Multiplexer enables the delivery of up to 16 E1 services over a fibre infrastructure. The Emux is available with 4, 8 or 16 E1 ports and has Dual 1+1 redundant fibre line interfaces.

The resilient 1+1 interface is presented as dual SFP modules allowing users to change fibre interface depending on their network topology. The use of 1+1 redundancy permits continuous operation even when a fibre fault occurs. Switch-over from the Working to the Protection fibre is automatic. The use of SFP modules enables many types of fibre to be supported, including single-mode, multi-mode, bidirectional and CWDM.

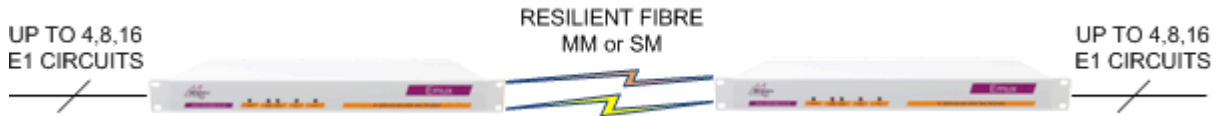
The Emux is managed using either a local terminal with a simple menu based user interface, or alternatively using Telnet or SNMP via the local 10BaseT LAN port; or In-Band over the line interface. Extensive diagnostic and test features include Loopbacks and Test Pattern generators to ease the resolution of any service problems. Extensive performance monitoring statistics are collected and stored for up to 24 hours in 15 minute intervals.

TFTP is available to upgrade both application software and FPGA firmware, thus enabling the Emux to benefit from any future developments.

Emux
datasheet



Emux Application



The Emux may be used by managed Network Operators to concentrate E1 services on to fibre, distribute the traffic to a remote location and then fan out the E1 services to users.

Specifications

E1 Interfaces		Fibre Line Interface	
Presentation	RJ45, NT interface	Presentation	Dual SFP(LC)
Standard	G.703, 120 ohm balanced at 2.048Mbps	Standard	Supports 100BaseFX, STM-1/OC-3, SFP(LC)
Coding	HDB3	Coding	NRZ
Clock mode	Through	Clock mode	Internal, Loop, E1
Number of ports	4, 8 or 16 E1 interfaces	Scrambling	X48, X3 or None
Diagnostics	Internal, External loopback	Redundancy	1+1
Test mode	2^15 ITU Test Generator/Receiver	Switch-over	Less than 50ms from fault detection
Alarms	LOS, AIS	Diagnostics	Internal, External loopback
Errors	BPV	Test mode	2^23 ITU Test Generator/Receiver
Environment		Compliance & Approvals	
Temp	0 - 50 deg C	Safety	EN41003, EN60950
Humidity	95% RH, non-condensing	EMC	EN55022, EN50082
Pressure	86-106 kPa		
Power supply options		Ordering Information	
-48VDC Supply	-40 to -72 VDC, 150 - 85 mA	Order codes	100-250 VAC
AC Mains	100-250 VAC, 50-400 Hz, 60 - 25 mA, IEC connector		-48 VDC
Power Consumption	15 watts approx when operating	Emux-4	80-12-400 80-24-400
		Emux-8	80-12-401 80-24-401
		Emux-16	80-12-402 80-24-402
		MM SFP	80-30-021 80-30-021
		SM-SH SFP	80-30-031 80-30-031
		SM-LH SFP	80-30-033 80-30-033

Emux
datasheet

Alternative SFPs such as CWDM available on request

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
 Metrodata reserves the right to change specifications without notice.
 Please check when ordering.

