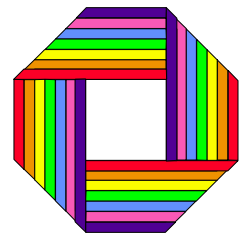


# HIGH SPEED FIBRE OPTIC MULTIPLEXER



*The OPT100 series is a high speed fibre optic time division multiplexer providing a highly reliable and flexible transmission system that fulfils a host of data communication and telemetry requirements. The data rate, 125 Mbits/sec, allows the transmission of many high speed digital and analogue signals.*

## *Key Features*

- *Two optics cards*
- *Bi-directional link on 2 fibres*
- *Very low error rates  $<1:10^{-10}$*
- *Multiplexers may be used in either daisy chain or ring configuration with drop and insert capability*
- *Diagnostic LEDs*
- *Local and remote fault alarms*
- *850nm and/or 1300nm LEDs or Lasers*
- *Standalone or rack mounting housing*
- *Standard and non-standard interfaces*
- *192 RS232 channels or equivalent at 125kbits/sec*

# 100 SERIES TECHNICAL SPECIFICATION

## PERFORMANCE

### GENERAL

Type of multiplexing	Time division
Data rate	125 Mb/s
Signal coding	NRZ 4B/5B or 5B/6B
Bit error rate	<10 <sup>-9</sup>
Configuration	Point to Point Drop and Insert, Broadcast Mode

### INTERFACES

RS 232	19.2 Kb/s
RS 422	125 Kb/s
Audio 1V peak to peak	14KHz
Voice	300-3400Hz
Analogue Card	DC to 5KHz

### OPTICAL

Optical budget at 850nm	11 dB (50/125)
Optical budget at 1300nm	13 dB (50/125)

### CHANNELS

Standalone/Rackmount	192
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## MECHANICAL AND ELECTRICAL

### DIMENSIONS

Standalone	485 x 220 mm x 3U
Rackmount	19" x 220mm x 3U

### POWER CONSUMPTION

Standalone/Rackmount	240 VAC (55W)
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### ENVIRONMENTAL

Storage temperature	-20°C to +65°C
Operating temperature	0°C to +50°C
Relative Humidity	92% non condensing

### ELECTRICAL CONNECTORS

RS232	D25
RS422	D15
Audio/Voice	D15

### OPTICAL CONNECTORS

850 nm LED	ST
1300 nm LED	ST
1300 nm LASER	PC

Power connector	IEC
for subrack and standalone modules	

## ORDERING INFORMATION

Part No. 1?? - ??

### Chassis

- 1 = Rackmount
- 2 = Standalone

### Package/Power

- A = 240 VAC
- B = 110 VAC
- C = 48 VDC

### Optics Cards

- 1 = 1 Optics Card
- 2 = 2 Optics Cards

### Optics

- 1 = 850nm LED ST
- 2 = 1300nm LED ST
- 3 = 850nm LED SC
- 4 = 1300nm LED SC
- 5 = 1300nm Laser single mode fibre

### Interface Cards

- 101 = RS232 with 2 hand shaking channels
- 102 = RS422
- 103 = TTL
- 104 = RS485
- 105 = 20mA Current Loop
- 106 = A/D Manchester
- 107 = Voice
- 108 = Analogue

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