

# DTL MiniBlox™



## 4280 SDI Optical Transceiver



### Description

Simultaneous independent SDI to Optical and Optical to SDI conversion.

Supports SD, HD & 3G SDI, DVB/ASI 270Mbps

It is housed in an extremely compact and rugged aluminium case ideally suited to both studio and portable applications.

### Features

- Supports data rates from 50Mbps to 3Gbps
- Automatic Cable Equalisation
- Multi-rate reclocking with automatic rate detection and automatic bypass for non SDI data rates
- LEDs display power and SDI lock status
- Wide input voltage range 6-12VDC
- Locking DC jack
- Optical input and output on female LC connectors
- Provides reclocked loop-through SDI output
- Optical transmit on 1310nm (1550nm and CWDM options available)
- Optical receive on 1260-1620nm Wavelength
- Use two 4280 units together for a complete bidirectional SDI-over-fibre system

[www.miniblox.com](http://www.miniblox.com)

### Specifications

Standards	SMPTE 297M, SMPTE 259M, SMPTE 292, SMPTE 424M, DVB-ASI	<b>Power</b>	
Connector	75Ω BNC	Voltage	6-12V DC
Data Rate	50Mbps – 3Gbps	Indicators	Power & SDI lock
Signal Level	800mV <sub>p-p</sub> ±10%	<b>Other</b>	
Return loss	>15dB to 1.5 GHz, >10dB 1.5GHz-3GHz	Dimensions	63.5mm x 84mm x 30mm (excluding connectors)
Typical cable length equalisation (Beldon 1694A)	400m @ 270 Mbps 200m @ 1.485 Gbps 140m @ 2.970 Gbps	Weight	145G
Compliance	Class 1 FDA and IEC60825-1 Laser Safety		
Centre Wavelength	1310nm ± 20nm @ 25°C (1550nm and CWDM options available)		
Transmitter Laser Type	FP (DFB for CWDM Version)		
Fibre Type	Single Mode		
Optical Transmitter Power	-2dBm typ.		
Receiver Wavelength	1260-1620nm		
Receiver Sensitivity	-22dBm typ.		
Receiver Photodiode Type	PIN		

### Ordering information

4280 SDI Optical Transceiver

4006 Desktop power supply with IEC320 C14 inlet

4010 1U rack mounting frame for up to 5 units including PSU

We reserve the right to change technical specifications without prior notice. E&OE.

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