

MiniPlexer



The CDL MiniPlexer solves your sensor integration problems when you have more signals to transmit than available copper conductors.

The MiniPlexer is a compact low power board set designed to transfer data from up to 8 separate RS232 channels over a single 115k baud data channel. For ROVs and other applications where umbilical's are used, this greatly increases the efficiency of data transfer, cuts down on umbilical cores needed, and reduces umbilical weight, size and cost.

The MiniPlexer works by combining all the channel data into a single stream of compressed data packets. This means that the link itself does not have to run at excessive data rates and makes reliable transmission over several kilometres of copper umbilical achievable.

MiniPlexer is available in an OEM format, unpackaged, and ready to be installed inside your own housing, with direct internal wiring to the card.

It is also available pre-packaged. The subsea end is supplied in a housing with underwater connectors, power supplies and fuses. The surface end is supplied in a 2U rack with 9-pin d-type connectors and status LEDs for each channel.

CDL sensors and instruments have an RS232 interface, and a comprehensive survey or inspection sensor package comprising CDL products can be run over a single copper data link.



Features:

- Up to 8 Channels
- RS232 inputs/outputs
- RS485, RS422 link
- Long range > 3km
- Selectable baud rates
- Very compact
- Low power
- Housed or OEM

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Product Specification:

Link Data Format	RS485, RS232
Baud Rate	9600 baud or 115kbaud
Range (pre-emphasised RS 485 drivers)	>3km
Input Data Format	RS232
Baud Rate	9600 baud to 57.6 kbaud

Transparent to both ASCII and pure binary data
Will accept any combination of data, stop, parity

Power Requirements:

Power Input (d.c. with regulator)	5-30 Vdc
Power Input (d.c. without reg)	5 Vdc
Power Input (a.c.)	100 - 240 Vac
Current consumption (OEM)	<5mA (@24Vdc typical)
Current consumption (Housed including PSUs)	Powers all attached sensors
Power Supplies in Housing (with individual re-settable fuses)	
Channel 1	24V @ 4.2A
Channel 2, 3, 4	24V @ 1.4A
Channel 5, 6, 7, 8	24V @ 1A

Depth Rating:

3,000 metres (Standard)	(9,870 feet)
6,000 metres (Special)	(19,685 feet)

Environment:

Temperature Range:	Operating: -30C to +55C
	Storage: -55C to +65C

Weights and Dimensions:

Dimensions (topside 19" rack)

Height	2U Depth
	300mm

Dimensions (OEM)

Diameter of PCB	118mm Dimensions
	(3,000 metre housing)
Length:	252mm (336 inc. connectors)
Diameter:	140mm

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