

MINIPLExER



UP TO 8 CHANNELS
RS232 INPUTS/OUTPUTS
RS485, RS422 LINK
LONG RANGE > 3KM

SELECTABLE BAUD RATES
VERY COMPACT
LOW POWER
HOUSED OR OEM

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

The CDL 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 umbilicals are used, this greatly increases the efficiency of data transfer, cuts down on umbilical cords 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.

Performance:

Link Data Format	RS485 Half Duplex	2-Wire From Pre-Emphasis Mode
	R8232	3-Wire Mode
Baud Rate		9600 baud or 115kbaud
Range (pre-emphasised RS 485 drivers)		>3km
Input Data Format		RS232
Baud Rate		115K
Transparent to both Ascii and pure binary data		
Will accept any combination of data, stop, parity		
Depth Rating:		
	3,000 metres (Standard)	(9,870 feet)
	6,000 metres (Special)	(19,685 feet)
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
Temperature Range		
		Operating: -30C to +55C
		Storage -55C to +65C
Dimensions		
	(3,000 metre housing)	
	Length	252mm (336 inc connectors)
	Diameter	140mm
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
Dimensions (topsides 19" rack)		
Height		2U
Depth		300mm
Dimensions (OEM)		
Diameter of PCB		118mm