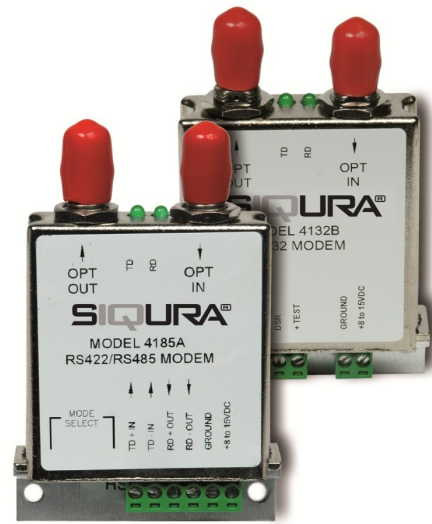## Features

- Miniature data fiber modems
- RS-232, RS-422, and RS-485 versions available
- Optically interchangeable for converting one data type to another
- Optically compatible with most Optelecom® drop and insert data modems

4132B, 4185A
Miniature data modems

Description

These Optelecom® miniature data modems transport an RS-232, RS-422, or RS-485 data signal on a pair of fibers. Available in multi-mode and single-mode versions, they are packaged in a D-Sub connector-size package. These units can be mixed and matched to provide both optical data transmission and data type conversion with one link. All units operate on two fibers.

Technical Specifications
4132B, 4185A

Data	
Data type RS-232	TD and RD (3-wire), DC to 115.2kb/s, auto baud, pulse distortion ±1.3µs maximum (16% at 128kb/s)
Data type RS-422	2- or 4-wire, DC to 128kb/s auto baud, pulse distortion ±1.3µs maximum (16% at 128kb/s) input impedance 120Ω or 1.3kΩ switchable auto baud
Data type RS-485	2- or 4-wire, DC to 128kb/sauto baud, pulse distortion ±1.3µs maximum (16% at 128kb/s) input impedance 120Ω or 1.3kΩ switchable

Power requirements	
4132B	
Voltage	+5.5 to +15VDC
Current	65mA at 12VDC
4185A	
Voltage	+8.0 to +15VDC
Current	35mA at 12VDC

Environmental	
Operating temperature	-40°C to +74°C (-40°F to +165°F)
Storage temperature	-55°C to +85°C (-67°F to +185°F)
Relative humidity	<95% with no condensation

Mechanical	
4132B	
Dimensions (h x w x d)	15.2 x 53.3 x 66mm (0.6 x2.1 x 2.6in)
Weight	90.7g (0.2lb)
4185A	
Dimensions (h x w x d)	17.8 x 53.3 x 80mm (0.7 x 2.1 x3.15in)
Weight	90.7g (0.2lb)

Technical Specifications
4132B, 4185A

Optical

	4132B-S	4132B-LD	4185A-S	4185A-LD
Fiber type	MM (62.5)	SM (09)	MM (62.5)	SM (09)
Output wavelength	850nm	1310nm	850nm	1310nm
Output power	-19dBm	-18dBm	-19dBm	-18dBm
Input sensitivity	-41dBm	-41dBm	-41dBm	-41dBm
System link budget	22dB[1]	23dB	22dB[1]	23dB
Fiber length (range)2	6km	57km	6km	57km
Connector type	ST	ST	ST	ST

[1]For 50/125μm fiber, subtract 4dB.

[2] Range may be limited by fiber bandwidth.

Ordering information

Models	Description	Fiber type
4132B-S-ST	RS-232 miniature data fiber modem	2xMM
4132B-LD-ST	RS-232 miniature data fiber modem	2xSM
4185A-S-ST	RS-422/485 miniature data fiber modem	2xMM
4185A-LD-ST	RS-422/485 miniature data fiber modem	2xSM
PSA-UN12DC	Wall-Wart, switching power supply	
PSR-12DC	DIN rail mounting, switching power supply	