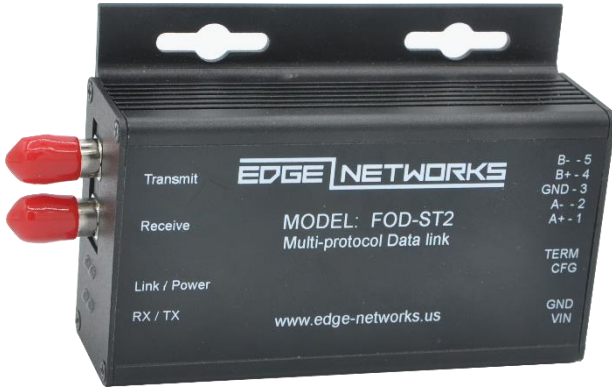


Fiber Optic Data Modem
Multi-protocol data link



PRODUCT OVERVIEW



- RS232 / RS422 / RS485 support
- Data rates up to 1MBD
- Selectable Internal Terminations
- Multi-mode and Single mode support
- 1 or 2 fibers
- ST / SC connectors or Optional SFP
- Data activity LED indicators
- Point to Point applications up to 20KM

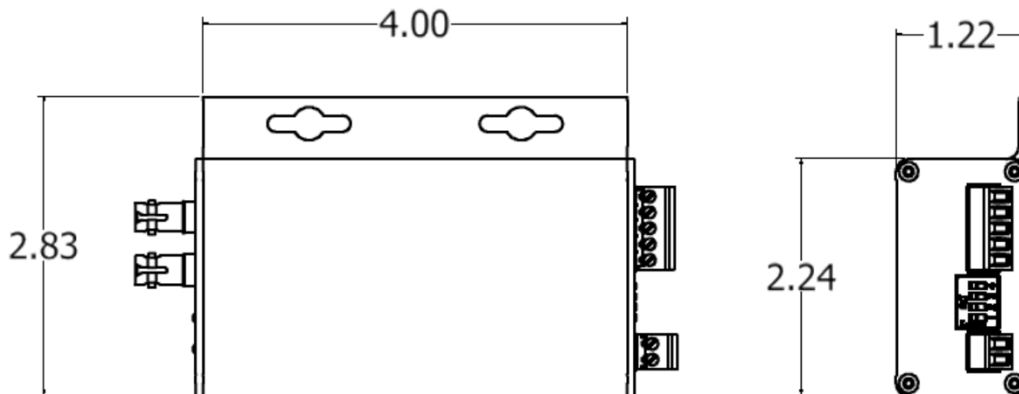
ORDERING INFORMATION

PART CODE	DESCRIPTION
FOD-ST2	Fiber Optic Data Modem, ST connectors, 2 fiber
FOD-STA	Fiber Optic Data Modem, ST connectors, 1 fiber, 1310nm TX
FOD-STB	Fiber Optic Data Modem, ST connectors, 1 fiber, 1550nm TX
FOD-SC2	Fiber Optic Data Modem, ST connectors, 2 fiber
FOD-SCA	Fiber Optic Data Modem, ST connectors, 1 fiber, 1310nm TX
FOD-SCB	Fiber Optic Data Modem, ST connectors, 1 fiber, 1550nm TX
FOD-SFP	Fiber Optic Data Model, SFP interface (SFP sold separately)

RECOMMENDED ACCESSORIES

PS12-12W-W	Power Supply 12V, 1A, 12W, Wall mount
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OUTLINE (INCHES)



SPECIFICATIONS

ELECTRICAL

Data Format		RS232, RS422, RS485 – 2 wire, RS485 – 4 wire, Manchester, Bi-phase, Sensornet
Data Rate	RS422/ RS485	DC to 1Mbps
	RS232	DC to 250Kbps
Data Operating modes		Asynchronous, simplex, half or full duplex, protocol agnostic
Data Interface		Removable, 5 contact screw terminal connector
Operation Voltage		8 – 15 VDC
Power Consumption		<2W
Protection		Overload Current Protected, Reverse Polarity Protected
Power Connector		Removable, 2 contact screw terminal connector
Indicator LEDs		Power, Optical Link, Data in, Data out
DIP Switches		Mode select x 2, Termination x 2
Termination		120 Ohms across inputs and outputs switch selectable

OPTICAL

Wavelength	FOD-ST2/ FOD-SC2	TX: 1310nm, RX 1310nm
	FOD-STA / FOD-SCA	TX: 1310nm, RX 1550nm
	FOD-STB / FOD-SCB	TX: 1550nm, RX 1310nm
	FOD-SFP	Wavelengths are SFP dependant
Connector(s)	FOD-STx	ST type TIA-604-2 FOCIS compatible
	FOD-SCx	SC type: TIA-603-3 FOCIS compatible
	FOD-SFP	LC
Number of Fibers	FOD-ST2/ FOD-SC2	2
	FOD-STA / FOD-SCA	1
	FOD-STB / FOD-SCB	1
	FOD-SFP	SFP Dependant
Optical Emitter *		Laser Diode – Class 1
TX Launch Power *		-15dBm (min) to -6dBm (max)
RX Sensitivity *		-34dBm
Optical Loss budget *		19dB (min)
		<ul style="list-style-type: none"> • Non-SFP models

ENVIRONMENTAL LIMITS

Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Ambient Relative Humidity	5 to 95%, (non-condensing)

SPECIFICATIONS (CONTINUED)


MECHANICAL CONSTRUCTION

Enclosure	Aluminum
Protection Class	IP30
Dimensions (WxHxD)	4.00 x 2.83 x 1.22 inches
Weight	< 1lb
Mounting	Wall Mounting

REGULATORY APPROVALS

EMI	FCC Part 15 Subpart B Class A
MTBF	>100,000 hours
Warranty	5 Years

PINOUTS

Power	Data	DIP SWITCH	POS 1	POS 2	Format	POS 3 OUT +/-		POS 4 IN +/-	
			OFF	OFF		RS232	OFF	ON	OFF
VIN+ GND	IN+ IN- GND OUT+ OUT-		OFF	ON	RS422	HI Z	120Ω	HI Z	120Ω
			ON	OFF	RS485-2W				
			ON	ON	RS485-4W				

Notes:

- In a continuing effort of improvement and updating technology, product specifications are subject to change without notice

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