

Self-healing Ring Data

RS-232/RS-422 transceiver

- Provides supports for RS-232/RS-422 communications in a self-healing ring topology.
- Creates a totally redundant, fault-tolerant, self-healing data network.
- Incorporates anti-streaming circuitry and user-selectable time-outs to prevent a runaway data condition.
- Supports asynchronous RS-232 or RS-422 data to 100 kBaud.
- Meets NEMA TS1/TS2 requirements for vibration, shock, temperature, and humidity to withstand extreme environmental conditions.



Model 2869 Link

The Force, Incorporated **Model 2869 RS-232/RS422 Fiber Optic Self-healing Ring Transceiver** is designed to support full-duplex, asynchronous RS-232 or RS-422 type data communications in a multidrop, counter-rotating ring topology over multimode or single-mode optical fiber. Proper implementation of the Model 2869 allows for totally redundant, fault-tolerant, self-healing operations, providing uninterrupted communications between network nodes, even if a fiber break occurs or one or more transceivers in the ring fails. Each transceiver can be configured as a master, a local, or a submaster unit. State-of-the-art electro-optics are deployed for maximum unit reliability. All optical signals are fully regenerated at each transceiver, ensuring transparent, error-free data transmission throughout the network. The unit is available in a 4RU rack-mount configuration in addition to the rugged stand-alone module. These units are ideal for polled security systems, computer LAN, process control, and I.T.S. applications.

Available through **Multicom, Inc.**

Ph: 407-331-7779 Toll Free: 800-423-2594 Fax: 407-339-0204 www.multicominc.com multicom@multicominc.com

Optical Characteristics*

	Min	Typ	Max	Units
Optical Loss Range	0		17	dB
Required Fiber Bandwidth	1			MHz
RS-232/RS-422 Data Rate	DC		100	kBaud
Operating Wavelength		1310		nm
Optical Output (xmit "1")	-6		-4	dBm
Optical Output (xmit "0")	-12		-10	dBm
Pilot Tone P-to-P Optical. Pwr.	-10		-6.5	dBm
Pilot Tone Frequency	430		480	kHz
Saturation Level (xmit "1")	-4			dBm
Saturation Level (xmit "0")	-10			dBm
Sensitivity Level (xmit "0")			-29	dBm
Data Jitter			4	μs
Duty Cycle	40		60	%

Environmental and Electrical Characteristics*

	Min	Typ	Max	Units
Power Supply Voltage	+8		+18	Volts DC
Power Supply Current		150		mA
Operating Temp. Range	-37		+75	°C
Storage Temp. Range	-35		+75	°C
Humidity	0		98	%

Physical Characteristics*

	Min	Typ	Max	Units
Weight		23		oz.
		652		g
Dimensions	5.90 x 5.75 x 1.12			in.
	149.9 x 146.1 x 28.5			



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Ordering Information*

2869XA-BCST	Transceiver, RS-232/RS-422, SM or MM, 1310 nm, ST™ Optical Connector
PS170-1	Power Supply, +12 Volts, 400 mA DC Power Supply, 2-Pin Weidmuller Plug
2585CA-NN	4RU Rack Chassis, Universal AC Power Supply
2586A-NN-5	4RU Rack Adapter Card, 1 Unit Per Card

*System performance specifications are indicated for use with single-mode fiber.
See IOM2869 for complete performance specifications and part numbers.
Contact an Applications Engineer or visit our website for complete specifications on rack-mounting and power supply options.

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