BB-9PFLST



Introduction

Model BB-9PFLST allows any two RS-232 asynchronous serial devices to communicate full-duplex over two multi-mode fibers. Typical distances up to 4 km (2.5 mi) are possible with no external power required. The BB-9PFLST supports both data signals at up to 115.2 kbps as well as the RTS/CTS handshake lines. This means model BB-9PFLST can replace short haul modems and isolators when connecting remote devices, while providing the EMI/RFI and transient immunity of optical fiber.

RS-232 connections are provided on the same DB9 female connector, while the multimode fiber is connected via two ST connectors. The unit is port-powered by the RS-232 Transmit Data and handshake lines. When handshake lines are not available, or when using a low power RS-232 port, the BB-9PFLST can be powered by an external 12Vdc supply, drawing 50 mA maximum (power supply not included, sold separately).

Fiber Optic Benefits

Fiber optic cable carries serial data up to 4 kilometers (2.5 mi), much farther and 'eliably than conventional copper lines.

Power surges, spikes and groupd loops are created by electrical equipmen, by nearby lightning strikes, and from other sources. They are easily picket up b copper data lines and transmitted to connected devices, garbling data communications and damaging equipment.

However, fiber optic data transmission uses light in grass fiber cable as a communication medium. Being inherently non-electric, fiber optic hable will not pick up noise and provides the most reliable system possible — ideal for spanning areas with severe interference, such as near heavy electrical equipment, welding or radio transmissions. It does not transmit power spikes or surges and prevents ground loops by not providing a conductive path for the ground.

Serial to Fiber Optic Modem

Features

- Fiber optic data transmission between two RS-232 devices
- EMI/RFI transient immunity to surges, spikes, ground loops
- Data rate: 115.2 kbps; up to 4 km (2.5 mi) range
- Quick, inline installation
- Note: use in pairs; one at each end of fiber transmission line
- · Port-powered, no external power required
- Optional external powering (power supply not included, sold separately)

Ordering Information

	Model No.	Serial Con. ecto	Fiber Optic Connector	Output
	BB-9PFLST	DPC Femal	Multi-mode ST	RS-232

Note: Must be use a III rail c

Accessories old Separately

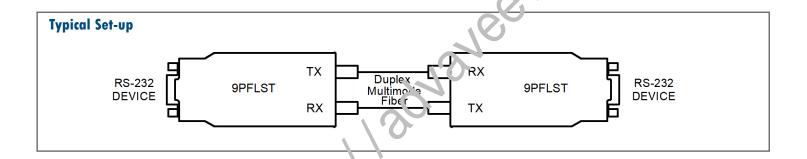
BB-SMI(B \cdot 2 '-P230C1 — Power supply, 12 Vdc, 6 W, 2.5 mm plug, International AC input, Internation \cdot 1 C blades

22-9PAMF6 - Serial adapter cable, DB9 male to DB9 female, 1.8 m (6 ft)

Specifications

Serial Technology			
Data Rate	Up to 115.2 kbps, maximum		
RS-232			
RS-232 Connector	DB9 female		
RS-232 Signals	TD, RD, RTS, CTS, GND		
Fiber Optic Technology			
Connector	Multi-mode ST		
Typical Range	Up to 4 km (2.5 mi) on multi-mode glass fiber		
Transmission Line	Dual multi-mode optical cable		
Transmission Mode	Asynchronous, half or full-duplex, point-to-point		
Power			
Source	Port-powered from serial port TD, RTS, DTR lines		
Optional Source	External 12 Vdc (power supply not included,		
	sold separately)		
Coupled Budget	12.1 dB		
Optic Wavelength	820 nm		

Mechanical					
Dimensions	10.9 x 4.3 x 2.4 cm (1.3 x 1.7 x 1.0 in)				
Enclosure	Plastic				
Mounting	In-line installation				
Environmental					
Operating Temperature	0 to +50 °C, maximum				
Meantime Between Failures (MTBF)					
MTBF	404846 hours				
Calculation Method	MIL 217F Parts Count Reliability Prediction				
Regulatory – Approvals / Standards / Directives					
Approvals	FCC Part 15				
CE - Directives	2014/30/EU – Electromagnetic Compatibility Directive (ECD) 2011-65/EU – a ne. ded by (EU) 2015/863 Reduction of Hazardous Substances Directive (RoHS) 2012/19/ U – Vaste Electrical and Electronic Equipment (WEEE)				
CE - Standards	EN 55002 Clast B - Electromagnetic Compatibility of Multimedia				



AD\ANTECH www.advantech.com