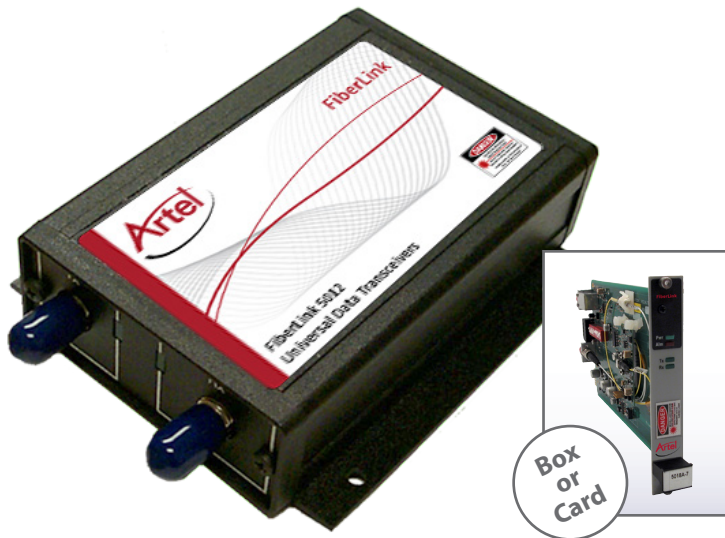




FiberLink® 5012/5018A Universal Data Transceivers

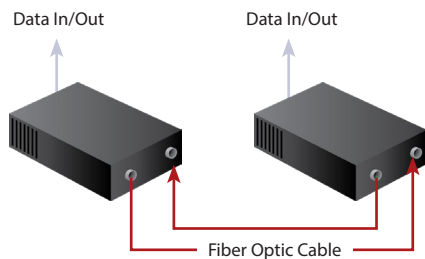


RS-232/422/485 data transmitted digitally over single mode or multimode fiber

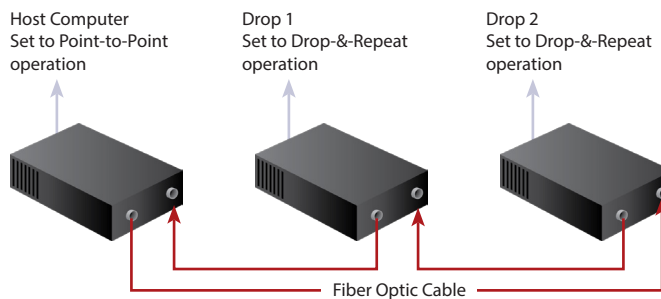
The FiberLink 5012 Universal Data Transceiver digitally transmits RS-232/422/485 data over multimode or single mode fiber at 850 or 1310 nm. It transmits and receives all standard data-related signals in accordance with EIA

specifications. The 5012 is suitable for simplex, full duplex and drop-and-repeat operation, making it ideal for Data Acquisition, Intelligent Transportation, Industrial and Manufacturing applications.

Point-to-Point Data Link Configuration



Ring or Loop Type Data Bus Configuration



FEATURES

Two-Way RS-Type Data over Fiber

Ideal Applications: Data Acquisition, Intelligent Transportation, Industrial, Manufacturing

Transmits over multimode or single mode fiber at 850 or 1310 nm

Transmits and receives all standard data-related signals in accordance with EIA specifications

Suitable for simplex, full duplex and drop-and-repeat operation

May be easily user-configured for the desired protocol, including mixed protocols. Transmitter and receiver may be configured differently

Adjustment free; all digital processing and transmission

Wide operating data rate, with low-speed mode (DC up to 1.0 Mbps; 200 Kbps for RS-232) and high-speed mode (10 Kbps - 10 mbps)

Extended ambient operating range

Data-derived or RTS transmit/receive switching (RS-485)

Indicator LEDS monitor signal and power

Card version fills one slot in 6000A card cage

SPECIFICATIONS

Data	
Low-Speed Transmission Rate	RS-232, DC-200 Kbps; RS-422/485, DC to 1.0 Mbps
High-Speed Transmission Rate	RS-422/485, 10 Kbps to 10 Mbps
Operating Modes	Simplex, duplex, asynchronous, drop-and-repeat, RTS or data derived T/R control (RS-485)
Compatibility	RS-232, RS-422, RS-485 (2 or 4-wire)
Input Signal Voltage	+5 to +30 volts per EIA RS-232D 4.5 to 5 volts per RS-422, RS-485
Output Signal Voltage	+5 to +10 volts per EIA RS-232D 4.5 to 5 volts per RS-422, RS-485

Operating Loss Budget and Maximum Usable Distance*		
Wavelength	Loss(dB)	Distance (km)
Low Speed Operation		
850 MM	0-12 dB	0-4
1310 MM	0-14 dB	0-14
1310 SM	0-15 dB	0-35
High Speed Operation		
850 MM	0-6 dB	0-2
1310 MM	0-8 dB	0-8
1310 SM	0-8 dB	0-20

SM = Single Mode Fiber

MM = MultiMode Fiber

*Distance specifications are only approximate and are not guaranteed. Operating loss budget must not be exceeded.

General Specifications	
Number of Fibers	2
Operating Wavelength	850 or 1310 nm
Connectors	Optical: ST: multimode; FC: singlemode Data: Removable screw-clamp type terminal block
Operating Power (per unit)	10 to 18 volts DC @ 150 ma peak (connected via separate power connector)
Operating Temperature Range	-35 to +74o C
Indicator LEDs	Power, Transmit, Receive, Loss of Data Alarm on card version
Physical Size	3.5 W x 1.25 H x 4.75 L (inches) 89 W x 32 H x 121 L (mm)
Weight	approx. 1 lb.; 0.45 kg
Slots filled in 6000A Card Cage	1
MTBF:	84,000 Hours



Schedule
Contract GS-03F-016CA

UPDATED 07/30/2016

All specifications subject to change without notice. ©2016

Ordering Information

Part Number	Description	Fiber Cores
5012-1	Transceiver Box, 850 nm, MM fiber	2
5018A-1	Transceiver Card, 850 nm, MM fiber	2
5012-3	Transceiver Box, 1310 nm, MM fiber	2
5018A-3	Transceiver Card, 1310 nm, MM fiber	2
5012-7	Transceiver Box, 1310 nm, SM fiber	2
5018A-7	Transceiver Card, 1310 nm, SM fiber	2
PDPS-1-pp	Power Supply	

Power Supply Suffix Codes (pp) for AC Line Cord:

NA - North America	AU - Australia	EU - Europe
JP - Japan	UK - United Kingdom	

Sales



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