



### 5012/5018A Universal Data Transceiv

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

Signal



r Loop Type Data Bus Configuration mputer Drop 1 Drop 2 oint-to-Point Set to Drop-&-Repeat Set to Drop-&-Repeat operation operation Fiber Optic Cable

rt Number	Description	Fiber Cores
)12-1	Transceiver Box, 850 nm, MM fiber	2
18A-1	Transceiver Card, 850 nm, MM fiber	2
12-3	Transceiver Box, 1310 nm, MM fiber	2
18A-3	Transceiver Card, 1310 nm, MM fiber	2
12-7	Transceiver Box, 1310 nm, SM fiber	2
18A-7	Transceiver Card, 1310 nm, SM fiber	2
OPS-1-pp	Power Supply	

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

A - North America AU - Australia UK - United Kingdom EU - Europe

### Data 1

Channels

Directi

#### Features

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 mix protocols. Transmitter and receiver may be configured differently

Adjustment free; all digital processi and transmission

Wide operating data rate, with lowspeed mode (DC up to 2.1 mbps; 200 Kbps for RS-232) and high-spec mode (10 Kbps - 10 mbps)

Extended ambient operating range

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

Indicator LEDS monitor signal and power

Card version fills one slot in 6000A card cage

**RoHS Compliant** 





nta Specifications		
v-Speed Transmission Rate	RS-232, DC-200 Kbps; RS-422/485, DC to 2.1 Mbps	
h-Speed Transmission Rate	RS-422/485, 10 Kbps to 10 Mbps	
erating Modes	Simplex, duplex, asynchronous, drop-and-repeat, RTS or data derived T/R control (RS-485)	
mpatibility	RS-232, RS-422, RS-485 (2 or 4-wire	
ut Signal Voltage	<u>+</u> 5 to <u>+</u> 30 volts per EIA RS-232D 4.5 to 5 volts per RS-422, RS-485	
tput Signal Voltage	<u>+</u> 5 to <u>+</u> 10 volts per EIA RS-232D 4.5 to 5 volts per RS-422, RS-485	
eneral Specifications		
mber of Fibers	2	
erating Wavelength	850 or 1310 nm	
nnectors	Optical: ST: multimode; FC: singlemode Data: Removable screw-clamp type terminal block	
erating Power (per unit)	10 to 18 volts DC @ 150 ma peak (connected via separate power connector)	
erating Temperature Range	-35 to +74° C	
licator LEDs	Power, Transmit, Receive, Loss of Data Alarm on card version	
ysical Size	3.5 W x 1.25 H x 4.75 L (inches) 89 W x 32 H x 121 L (mm)	
ight	approx. 1 lb.; 0.45 kg	
ts filled in 6000A Card Cage	1	

### ut CSI

The Universal Data Transceiver is ESD protected to 4/4/V on all signal inputs and outputs

nunications Specialties, Inc. (CSI) is an award-winning manufacturer of // products for the distribution, conversion or transmission of television omputer video signals, including fiber optic transmission systems, scan erters and video scalers. The company was founded in 1983 by veterans a broadcast industry. Since then, CSI has managed to consistently design rative products that are used worldwide by Fortune 500 Companies in ety of markets such as Broadcast/Professional A/V, Video Conferencing, ation, Home Theater, Security, ITS, Industrial Monitoring, and more!



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## Operating Loss Budget & Maximum Usable Distance

Wavelength	Loss(dB)	Distance
Low Speed Oper	ation	
850 MM	0-12 dB	0-4
1310 MM	0-14 dB	0-14
1310 SM	0-15 dB	0-35
High Speed Ope	ration	
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

 Obstance specifications are only approximate and are not guaranteed. Operating loss budget must not be acceeded.

# Want to learn more about fiber?

Log on to commspecial.com for fiber related resources written for Pro A/V Professionals by Pro A/V Professionals!



Backed by a 30-day satisfaction guarantee and a three-year limite warranty on parts and labor. See website for terms and conditio





631-273-0404 | commspecial.com Info@commspecial.com

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