

## ECT4016 16 CHANNEL DIGITAL UNIVERSAL DATA LINK



ECT4016 system provides high performance link for simplex or duplex transmitting up to sixteen data signals over a fiber optic cable.

The system features quality transmission of data signals with data rates DC – 7 Mb/sec.

ECT4016 system utilizes high speed Digital Signal Processing, Time Division Multiplexing and Fibre Optic Transmission at a serial data rate of up to 1.4 Gbit/sec.

### ORDERING INFORMATION

4016E(F)-GH-N-XYZ

E(F) = M for multimode 850nm  
 = M(8.5/13) for multimode 850 & 1300nm\*/1 fiber  
 = S for singlemode 1310nm  
 = S(15) for singlemode 1550nm  
 = S(13/15) for singlemode 1310 & 1550nm\*/1 fiber  
 G = DT for transmitter,  
 = DR for receiver,  
 = DX for transceiver  
 H = 1.6, 7 for maximum data rate in Mb/sec\*\*  
 N = 1 for TTL data format  
 = 3 for RS-232 data format  
 = 4 for RS-422 data format  
 = 9 for contact closure  
 X = M for standalone module  
 = C for rack card\*\*\*  
 Y = 1, 2 for number of fibers  
 Z = FC, ST or SC\* for optical connector

\*for transceiver (DX) only;

\*\*specified by customer;

\*\*\*compatible with USR series chassis.

### FEATURES

- ❑ High Speed Digital Transmission
- ❑ Up to 16 of TTL, RS-232, RS-422, Contact Closure Simplex or Duplex Data Channels
- ❑ Wide Data Rate Range, DC – 7 Mb/sec
- ❑ Multimode and Single Mode Versions
- ❑ Isolates EMI, RFI, Ground Loops
- ❑ Surface Mount Technology
- ❑ Power and Signal Status Indicators

Operating Wavelength	850/1310nm	1310/1550nm
Optical Core Diameter	50µ/62.5µ	8/10µ
Optical Power Source	Laser	Laser
Optical Power Output*	-3 dBm	-3 dBm
Receiver Sensitivity for data rates up to 1.6 Mb/sec	-31 dBm	-34 dBm
Receiver Sensitivity for data rates up to 7 Mb/sec	-22 dBm	-25 dBm
Optical Connectors	ST, SC	FC, ST, SC

\*with +/- 1 dBm variation; higher power laser sources are available per special request.

Channel Capacity	Up to 16 of TTL, RS-232, RS-422, Contact Closure
Data Rate	DC – 1.6, 7 Mb/sec
Data Input Impedance	10K for TTL, 5K for RS-232, 120 Ohm for RS-422
Contact Closure Input Signal	Dry contact / TTL / CMOS
Contact Closure Output Signal	Dry contact @ load 120VAC/24W or 30VDC/1A max
Power Requirements: Transmitter or Receiver	12 V DC @ 350 mA
Transceiver	12 V DC @ 700 mA
Operating Temperature	-30°C to +70°C (-22°F to +158°F)
Dimensions:	
DT, DR module (w/o connectors)	11.6"(295mm) x 5.2"(133mm) x 1.0"(25.4mm)
DT, DR module (with connectors)	12.5"(318mm) x 5.2"(133mm) x 1.0"(25.4mm)
DX module (w/o connectors)	11.6"(270mm) x 5.2"(133mm) x 2.0"(51mm)
DX module (with connectors)	12.5"(318mm) x 5.2"(133mm) x 2.0"(51mm)



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