

**ECT055 ONE / TWO CHANNEL RS-485 DATA OPTICAL LINK**



**FEATURES**

- ❑ High Speed Duplex Data Transmission, DC – 1 Mb/sec
- ❑ Speed – Independent Data Communication
- ❑ Multimode and Singlemode Versions
- ❑ Two or Four Wire Interfacing
- ❑ Isolates EMI, RFI, Ground Loops
- ❑ Surface Mount Technology
- ❑ Power and Signal Status Indicators
- ❑ 12V AC/DC or 24VAC Power Supply

ECT055 system provides high performance link for transmitting RS-485 data signals over a fiber optic cable. The system supports 2 and 4 wire RS-485 interfacing and speed-independent RS-485 transmission. The system features quality transmission of data signals with data rates DC – 1 Mb/sec. ECT055 utilizes high-speed frequency modulation and very low noise transmission technology to assure high accuracy and stability.

Operating Wavelength	850 nm	1300 nm	1310/1550nm
Optical Core Diameter	50µ/62.5µ		8/10µ
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-3 dBm	-14 dBm	-4 dBm
Receiver Sensitivity	-30 dBm	-34 dBm	-36 dBm
Receiver Sensitivity**	-29 dBm	-33 dBm	-35 dBm
Optical Connectors	ST, SC		ST, SC, FC

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

\*\* for one-fiber configuration with internal WDM.

**ORDERING INFORMATION**

055E-N/DXW-XYZ

- E = **M** for multimode
- = **M(13)** for multimode 1300nm
- = **S** for single mode receiver or 1310nm transmitter
- = **SP** for high power (0 dBm) 1310nm transmitter option
- = **S(15)** for single mode 1550nm transmitter
- = **S(15)P** for high power (0 dBm) 1550nm transmitter option
- = **SD, SPD, S(15)D, S(15)PD** for DFB lasers option
- N = **2** for 2 ch. card-module or rack card\*
- W = **2, 4** for number of wires
- X = **M** for standalone module
- = **C** for rack card\*
- Y = **1, 2** or **4**(rack card only) for number of fibers
- Z = **ST, SC, FC** for optical connectors

\*compatible with USR type chassis

<b>Channel Capacity</b>	1Ch. - for standalone module 2Ch. - for rack card or standalone card-module
<b>Data Rate</b>	DC – 1.6 Mb/sec
<b>Data Input Impedance</b>	120 Ohm balanced
<b>Power Requirements:</b>	
<b>1Ch. Module</b>	11 - 14 VAC/VDC @ 200 mA 21 - 27 VAC @ 150 mA
<b>2Ch. Card / Module</b>	11 - 14 VDC @ 400 mA
<b>Operating Temperature</b>	-30°C to +70°C (-22°F to +158°F)
<b>Dimensions:</b>	
<b>1Ch. Module</b>	6.86"(172mm) x 4.95"(126mm) x 1.4"(36mm)
<b>2Ch. Card / Module (w/o connectors)</b>	11.6"(270mm) x 5.2"(132mm) x 1.05"(27mm)
<b>2Ch. Card / Module (with connectors)</b>	12.5"(318mm) x 5.2"(133mm) x 1.05"(27mm)

**Note:** The specifications are subject to change without notice.



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