

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
- ❑ 12 VDC or 24 VAC 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 | 1310 nm | 1310/1550nm |
|------------------------|-----------|---------|-------------|
| Optical Core Diameter | 50µ/62.5µ | | 8/10µ |
| Optical Power Source | VCSEL | Laser | Laser |
| Optical Power Output* | -4 dBm | -4 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 850nm/TX
- = M(13) for multimode 1300nm/TX
- = 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

| | |
|---|--|
| Channel Capacity | 1Ch. - for standalone module 2Ch. - for rack card or standalone card-module |
| Data Rate | DC – 1 Mb/sec |
| Data Input Impedance | 120 Ohm balanced |
| Data Connector | RJ45 |
| Power Requirements: | |
| 1Ch. Module | 11 - 14 VDC @ 200 mA 21 - 27 VAC @ 150 mA 21 - 27 VDC @ 110 mA* |
| 2Ch. Card / Module | 11 - 14 VDC @ 400 mA |
| Power Connector: | |
| Module | Terminal Block with Plug, 3 pos. |
| Card-Module | Screw Terminal, 2 pos. |
| Operating Temperature | -20°C to +70°C (-4°F to +158°F) |
| Dimensions: | |
| 1Ch. Module | 6.86”(172mm) x 4.95”(126mm) x 1.4”(36mm) |
| 2Ch. Card / Module (w/o connectors) | 11.6”(270mm) x 5.2”(132mm) x 1.05”(27mm) |
| 2Ch. Card / Module (with connectors) | 12.5”(318mm) x 5.2”(133mm) x 1.05”(27mm) |

* optional

Note: The specifications are subject to change without notice.



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