

ECT-DCR1

FIBER OPTIC CONVERTER/REPEATER FOR ONE DUPLEX FM DATA CHANNEL



FEATURES

- ❑ High Speed Duplex Data Transmission, DC – 26 Mb/sec
- ❑ Multimode and Single Mode Version
- ❑ Isolates EMI, RFI, Ground Loops
- ❑ Built-In Loopback Function
- ❑ Surface Mount Technology
- ❑ Power and Signal Status Indicators
- ❑ Stand Alone or Rackmount Version

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	-3 dBm
Receiver Sensitivity	-26 dBm	-28 dBm	-30 dBm
Optical Loss Budget	23 dB	14 dB	27 dB
Receiver Sensitivity**	-25 dBm	-27 dBm	-29 dBm
Optical Loss Budget**	22 dB	13 dB	26 dB
Optical Connectors	ST, SC		ST, SC, FC

* with +/- 2 dBm variation @ -20 °C to +70 °C; higher power laser sources are available per special request;

** for two-fiber configuration with internal WDM.

ECT-DCR1 system provides the conversion of single mode fiber cable to multimode or the opposite – multimode fiber cable to single mode for duplex communication of Elcommtech's FM one channel data transceivers: ECT011, ECT013, ECT014, ECT033, ECT034, ECT044.

The system features quality FM transmission and reception technology of data signals with data rates DC – 26 Mb/sec.

ECT-DCR1 utilizes high-speed frequency modulation, low noise transmission and reception technology to assure high accuracy gain and stability of data duty cycles within the optical budget.

Channel Capacity	1 Duplex Channel
Data Rate	DC – 26 Mb/sec
Bit Error	< 1 in 10 ¹⁰
Alarm:	
Module	Dry Contact, Normal – "OFF"
Rack Card*	Logic "OFF"- 0 V, "ON" – 10 V @ 100K
Power Requirements:	10 – 15 VDC @ 400 mA
Operating Temperature	-20°C to +70°C (-4°F to +158°F)
Dimensions:	12.5"(318mm) x 5.2"(133mm) x 1.05"(27mm)

* The logic alarm signal translated from every card thru common bus to central alarm system located in modular PS of USR Series chassis.



ORDERING INFORMATION

DCR1-1TRZ-2TRZ-XY

TRANSMITTER

- T = **M** for multimode 850 nm
- = **M(13)** for multimode 1300 nm
- = **S** for single mode 1310 nm
- = **S(15)** for single mode 1550 nm
- = **SD(W)** for DFB lasers option
- W:** 1470(14.7), 1490(14.9), 1510(15.1), 1530(15.3),
1550(15.5), 1570(15.7), 1590(15.9), 1610(16.1) nm

RECEIVER

- R = **M** for multimode 850 nm
- = **M(13)** for multimode 1300 nm
- = **S** for single mode receiver 1150 – 1650 nm

- X = **M** for standalone module, **C** for rack card*
- Y = **2, 4** number of fibers
- Z = **ST, SC, FC** for optical connectors

* compatible with USR type chassis

Note: These specifications are subject to change without notice.



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