ECT255 DUAL VIDEO WITH TWO RS-485 DATA CHANNELS FM OPTICAL RECEIVER

Video	Data
2	2
→	↔

ECT255 system provides high performance link for receiving of two unidirectional composite video channels along with two bi-directional RS-485 data channels over two or four fibers. The system features CCTV professional video quality and high speed RS-485 data transfer capability. ECT255 utilizes linear frequency demodulation and very low noise reception technology to assure high quality and stability.

ORDERING INFORMATION

255**E**-VR/DX**N**-C**YZ** – 2 x Video Rx/RS-485 data TRX card
255**E**-VR/DX**N**-M**YZ** – 2 x Video Rx/RS-485 data TRX module
RX – receiver, TRX - transceiver

E = **M** for multimode 850 nm/TX
= **M(13)** for multimode 1300 nm/TX
= **S** for single mode 1310 nm/TX
= **S(15)** for single mode 1550 nm/TX
N = **2, 4** for number of wires
Y = **2** for single fiber system (1 fiber per channel)
= **4** for dual fiber system (2 fiber per channel)
Z = **ST, SC, FC** for optical connectors

Note: The specifications are subject to change without notice.

FEATURES

- CCTV Professional Video Quality
- Compatible with NTSC, PAL and SECAM Transmission
- High Speed RS-485 Data Ports
- Two and Four Wire Interface
- Multimode and Singlemode Versions
- Signal Status Indicators

Operating Wavelength	850 nm	1300 nm	1310/1550 nm
Optical Core Diameter	**50µ/62.5µ**		**8/10µ**
Optical Power Source	VCSEL	LED	Laser
Optical Power Output*	-7 dBm	-14 dBm	-8 dBm
Video & Data Receiver Sensitivity	-31 dBm	-33 dBm	-35 dBm
Video & Data Receiver Sensitivity**	-30 dBm	-32 dBm	-34 dBm
Optical Connectors	ST, SC		FC, ST, SC

** with +/- 2 dBm variation @ -30°C to +85°C; higher power laser sources are available per special request;*
*** for one-fiber configuration with internal WDM*

Video Bandwidth @ 3 dB	7 MHz
Video Output	75 Ohm unbalanced
Video Output Level	NTSC: 1.0 Vp., PAL: 1.3 Vp. (+1/-3 dB)
Signal-to-Noise Ratio	62 dB*
Diff. Gain (-20°C to +70°C)	< 4 %
Diff. Gain (-30°C to +85°C)	< 7 %
Diff. Phase (-20°C to +70°C)	< 4 °
Diff. Phase (-30°C to +85°C)	< 7 °
Field Tilt	< 2 %
Luminance Non-Linearity	< 4 %
Data Interface	RS-422
Data Rate	Up to 200 Kb/s
Bit Error Rate	10^{-9}
Power Requirements	11 - 15 VDC @ 400mA
Operating Temperature	-30°C to +85°C (-22°F to +185°F)
Dimensions (w/o connectors)	11.6"(295 mm) x 5.2"(132 mm) x 1.05"(27 mm)

** measured as per RS-250C @ 100m for multimode and 1km for single mode optical cable.*

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