

**ECT233 DUAL VIDEO WITH FOUR DUPLEX RS-232 DATA CHANNELS FM OPTICAL RECEIVER**



Video	Data
2	4
→	↔

ECT233 system provides high performance link for receiving of two unidirectional composite video channels along with four bi-directional RS-232 data channels over two or four fibers. The system features CCTV professional video quality and high speed RS-232 data transfer capability. ECT233 utilizes linear frequency demodulation and very low noise reception technology to assure high quality and stability.

**ORDERING INFORMATION**

233E-VR/DX-CYZ – 2 x Video RX/RS-232 data TRX card  
 233E-VR/DX-MYZ – 2 x Video RX/RS-232 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
- 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

**FEATURES**

- ❑ CCTV Professional Video Quality
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ High Speed Duplex RS-232 Data Ports
- ❑ Multimode and Singlemode Versions
- ❑ Power and Signal Status Indicators

<b>Operating Wavelength</b>	850 nm	1300 nm	1310/1550 nm
<b>Optical Core Diameter</b>	50µ/62.5µ		8/10µ
<b>Optical Power Source</b>	VCSEL	LED	Laser
<b>Optical Power Output*</b>	-7 dBm	-14 dBm	-8 dBm
<b>Video &amp; Data Receiver Sensitivity</b>	-30 dBm	-34 dBm	-36 dBm
<b>Video &amp; Data Receiver Sensitivity**</b>	-29 dBm	-33 dBm	-35 dBm
<b>Optical Connectors</b>	ST, SC		FC, ST, SC

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

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

<b>Video Bandwidth @ 3 dB</b>	7 MHz
<b>Video Output</b>	75 Ohm unbalanced
<b>Video Output Level</b>	NTSC: 1.0 V p., PAL: 1.3 V p. (+/-10%)
<b>Signal-to-Noise Ratio</b>	62 dB*
<b>Differential Gain</b>	< 4 %
<b>Differential Phase</b>	< 4 °
<b>Field Tilt</b>	< 2 %
<b>Luminance Non-Linearity</b>	< 4 %
<b>Data Interface</b>	RS-232
<b>Data Rate</b>	Up to 200 Kb/s
<b>Bit Error Rate</b>	10 <sup>-9</sup>
<b>Power Requirements</b>	11 - 15 VDC @ 500mA
<b>Operating Temperature</b>	-30°C to +85°C (-22°F to +185°F)
<b>Dimensions (w/o connectors)</b>	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

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



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