

ECT211 DUAL VIDEO WITH FOUR DUPLEX TTL DATA CHANNELS FM OPTICAL LINK



Video	Data
2	4
→	↔

ECT211 system provides high performance link for receiving of two unidirectional composite video channels along with four bi-directional TTL data channels over two or four fibers. The system features CCTV professional video quality and high speed TTL data transfer capability. ECT211 utilizes linear frequency demodulation and very low noise reception technology to assure high quality and stability.

ORDERING INFORMATION

211E-VR/DX-CYZ – 2 x Video RX/TTL data TRX card
 211E-VR/DX-MYZ – 2 x Video RX/TTL 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 1550nm/TX

Y = 2 for single fiber system (1 fiber per channel)
 = 4 for dual fiber system (2 fibers per channel)

Z = ST, SC, FC for optical connectors

FEATURES

- ❑ CCTV Professional Video Quality
- ❑ Compatible with NTSC, PAL and SECAM Transmission
- ❑ High Speed Duplex TTL/CMOS Data Ports
- ❑ Multimode and Singlemode Versions
- ❑ Power and 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	TTL/CMOS
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.

Note: The specifications are subject to change without notice.



Elcommtech Corp. 2620 Ocean Parkway, Suite 4H, Brooklyn, NY 11235
 Tel (718) 743-2869 • Fax (718)648-3642 • E-mail sales@elcommtech.com
<http://www.elcommtech.com>