

ECT255

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



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|-------|------|
| 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

255E-VR/DXN-CYZ – 2 x Video Rx/RS-485 data TRx card
 255E-VR/DXN-MYZ – 2 x Video Rx/RS-485 data TRx module
 Rx – receiver, TRx - transceiver

- E = M for multimode 2 fiber or 850nm/4 fiber
- = M(13) for multimode 1300nm/4 fiber
- = S for single mode 2 fiber or 1310nm/4 fiber
- = S(15) for single mode 1550nm/4 fiber
- 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

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

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|------------------------|-----------|---------|-------------|
| 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* | -8 dBm | -14 dBm | -8 dBm |
| Receiver Sensitivity | -32 dBm | -34 dBm | -34 dBm |
| Receiver Sensitivity** | -30 dBm | -32 dBm | -32 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

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|------------------------------|--|
| Video Bandwidth @1dB | 7 MHz |
| Video Output | 75 Ohm unbalanced |
| Video Output Level | NTSC: 1.0 V p-p, PAL: 1.3 V p-p |
| Signal-to-Noise Ratio | 62 dB* |
| Differential Gain | < 3 % |
| Differential Phase | < 3 ° |
| Field Tilt | < 2 % |
| Luminance Non-Linearity | < 3 % |
| Data Interface | RS-485 |
| Data Rate | Up to 200 Kb/s |
| Bit Error Rate | 10 ⁻⁹ |
| Power Requirements | 11 - 14 VDC @ 650mA |
| Operating Temperature | -30°C to +70°C (-22°F to +158°F) |
| Dimensions (w/o connectors) | 11.6"(270mm) x 5.2"(132mm) x 1.05"(27mm) |
| Dimensions (with connectors) | 12.5"(318mm) x 5.2"(133mm) x 1.06"(27mm) |

*measured as per RS-250C @ 1km, 62.5μ cable

