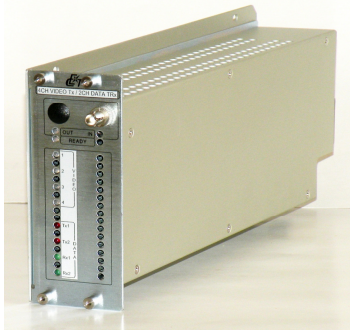


ECT5402 4 CHANNEL VIDEO/10 BIT AND 2 CHANNEL DATA DIGITAL LINK



FEATURES

- ❑ Broadcast Video Quality with 10-bit Uncompressed Video Processing
- ❑ Supports NTSC, PAL, SECAM and Component (YUV, RGB, Y/C) Video Formats
- ❑ Four composite Video Channels per Single Fiber / Single Wavelength
- ❑ Two RS-232, RS-422, TTL/CMOS, Contact Closure or one RS-485 Data Channel
- ❑ Input Video Cable Equalization
- ❑ Multifunction Power and Signal Status Indicators

Video	Data
4	2
→	→
	↔

Fiber Type	Multimode	Singlemode
Optical Core Diameter	50µ or 62.5µ	8/10µ
Operating Wavelength	850/1310 nm	1310/1550 nm
Optical Power Source	Laser	Laser
Optical Power Output*	-3 dBm	-3 dBm
Receiver Sensitivity	-21 dBm	-23 dBm
Optical Connectors	ST, SC	FC, ST, SC

**per wavelength with +/- 0.5 dBm variation; higher power laser sources are available per special request.*

The ECT5402 system provides a high performance link for transmitting up to four unidirectional composite video and two unidirectional or bi-directional data signals over a single fiber optic cable.

The system features broadcast video quality providing 10-bit video processing with uncompressed digital transmission. ECT5402 utilizes high speed Analog-to-Digital and Digital-to-Analog Conversion, Digital Signal Processing, Time Division Multiplexing, Fibre Optic Transmission at a data rate of up to 1.4 Gbit/sec and high speed data transfer capability.

Video Bandwidth @ 2 dB	10 Hz - 7 MHz
Video Input	75Ω balanced
Video Input Level	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
Signal-to-Noise Ratio	64 dB*
Differential Gain	< 0.5 %
Differential Phase	< 0.5 °
Field Tilt	< 0.5 %
Luminance	
Non-Linearity	< 0.5%
Chrominance/	< 20ns
Luminance Delay	
Supported Data Formats:	
Simplex or Duplex	RS-232, RS-422, TTL, Contact Closure
Duplex	RS-485
Data Channel Bit-Rate	Up to 1.6 Mb/sec
Bit Error Rate	10 ⁻⁹
Power Requirements	11 - 15 VDC @ 0.7 A
Dimensions	11.55"(295 mm) x 5.2"(132 mm) x x 2"(51 mm)

**measured with ECT5400 receiver as per RS-250C*



ORDERING INFORMATION

5402E-VT/DTU-X1Z – 4 ch. video & 2 ch. data transmitter
5402E-VR/DRU-X1Z – 4 ch. video & 2 ch. data receiver
5402E-VT/DRU-XYZ – 4 ch. video transmitter & 2 ch. data receiver
5402E-VR/DTU-XYZ – 4 ch. video receiver & 2 ch. data transmitter
5402E-VT/DXU-XYZ – 4 ch. video transmitter & 2 ch. data transceiver
5402E-VR/DXU-XYZ – 4 ch. video receiver & 2 ch. data transceiver

E = **M** for multimode 850 nm
= **S** for single mode receiver or 1310 nm transmitter
= **SP** for single mode high power (\geq 0 dBm) 1310 nm transmitter
= **S(15)** for single mode 1550 nm transmitter
= **S(15)P** for single mode high power (\geq 0 dBm) 1550 nm transmitter
= **S(15)D** for single mode 1550 nm / DFB transmitter
= **S(15)PD** for high power (\geq 0 dBm) 1550 nm / DFB transmitter
= **S(W)** for single mode CWDM / DFB transmitter
= **S(W)P** for high power (\geq 0 dBm) CWDM / DFB transmitter

CWDM wavelength (**W**): **14.7**(1470 nm), **14.9**(1490 nm), **15.1**(1510 nm), **15.3**(1530 nm),
15.5(1550 nm), **15.7**(1570nm), **15.9**(1590 nm), **16.1**(1610 nm).

U = 1 for TTL, 3 for RS-232, 4 for RS-422, 5 for RS-485, 9 for Contact Closure
X = **C** for card style*
= **M** for module style
Y = 1, 2 for number of fiber
Z = **FC**, **ST**, **SC** for optical connectors

*compatible with USR series chassis

