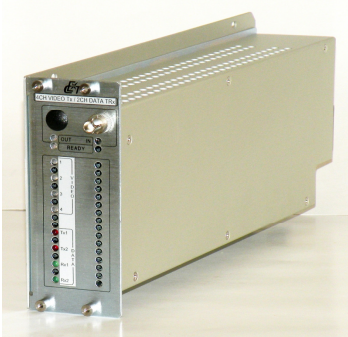


## ECT5402 4 CHANNEL VIDEO/10 BIT AND 2 CHANNEL DATA DIGITAL LINK



Video	Data
4	2
→	→
	↔

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.

### 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

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

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

<b>Video Bandwidth @ 2 dB</b>	10 Hz - 7 MHz
<b>Video Input</b>	75Ω balanced
<b>Video Input Level</b>	NTSC: 1.0 V p-p, PAL: 1.3 V p-p
<b>Signal-to-Noise Ratio</b>	64 dB*
<b>Differential Gain</b>	< 0.5 %
<b>Differential Phase</b>	< 0.5 °
<b>Field Tilt</b>	< 0.5 %
<b>Luminance</b>	
<b>Non-Linearity</b>	< 0.5%
<b>Chrominance/ Luminance Delay</b>	< 20ns
<b>Supported Data Formats:</b>	
<b>Simplex or Duplex</b>	RS-232, RS-422, TTL, Contact Closure
<b>Duplex</b>	RS-485
<b>Data Channel Bit-Rate</b>	Up to 1.6 Mb/sec
<b>Bit Error Rate</b>	10 <sup>-9</sup>
<b>Power Requirements</b>	11 - 15 VDC @ 0.7 A
<b>Operating Temperature</b>	-20°C to +60°C (-4°F to +140°F)
<b>Dimensions</b>	11.55"(295 mm) x 5.2"(132 mm) 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

