Specifications

Video Performance

Video Output Impedance	75 ohm (unbalanced)
Video Output Voltage	1V p-p NTSC, 1.3Vp-p PAL
Video Connector	BNC
Frequency Response @ 2dB	10 Hz to 7 MHz
Signal to Noise Ratio	62dB as per RS250C
Differential Gain	<4%
Differential Phase	<4°
Field Tilt	<2%
Luminance Non-Linearity	<4%

Optical Performance

Single mode - Core Diameter	8 - 10u
Optical Connector	ST
Receiving Wavelength	1310 nm
Receiver Sensitivity	- 36 dBm
Transmitting Light Source	Laser 1550 nm
Optical Power Output	-8 dBm(+/-1 dBm)

Data Interface

Data Interface	RS-232 Bi-directional
Data Rate	Up to 200 Kb/s

Operating Temperature	-30 ℃ to +70 ℃
Dimensions	294mm(L) x 132mm(W) x 27mm(H)
Power Requirements	12 VDC @ 500mA

233S-VR/DX-M2ST

2Ch. Fiber Optic Video Receiver
&
4Ch. RS-232 Data Transceiver

Single mode

Two Fiber Operation

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Introduction :

The Elcommtech 233S-VR/DX-M2 forms part of a singlemode, dual channel/dual fiber video and data fiber optic transmission system. Using frequency modulation and operating as a dual window 1310/1550nm two fiber unit, the 233S-VR/DX-M1 provides the following facilities in a 294mm x 132mm x 27mm free standing module.

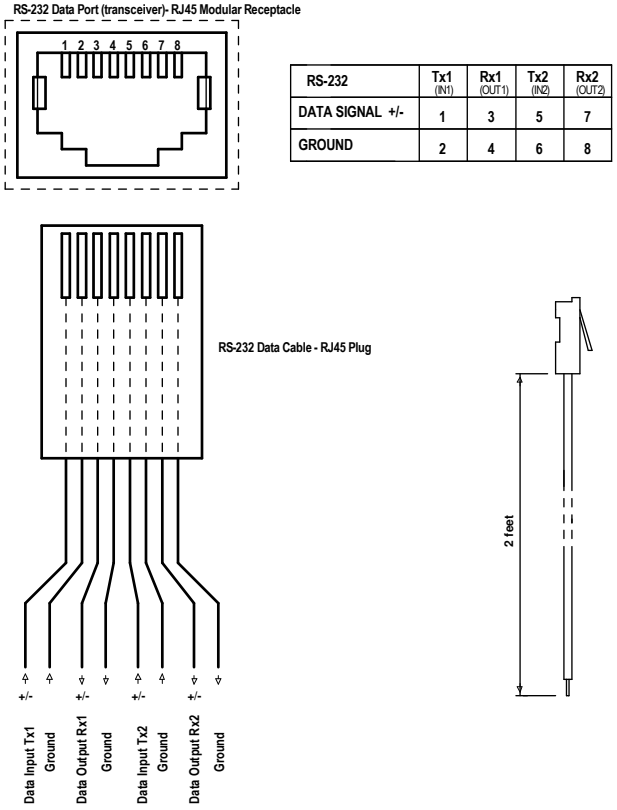
Optical Receiver for : 2 x Composite Video signal &
4 x RS-232 Data Channels

Optical Transmitter for : 4 x RS-232 Data Channels

Indicators :- All indicators are located on the front of the module.

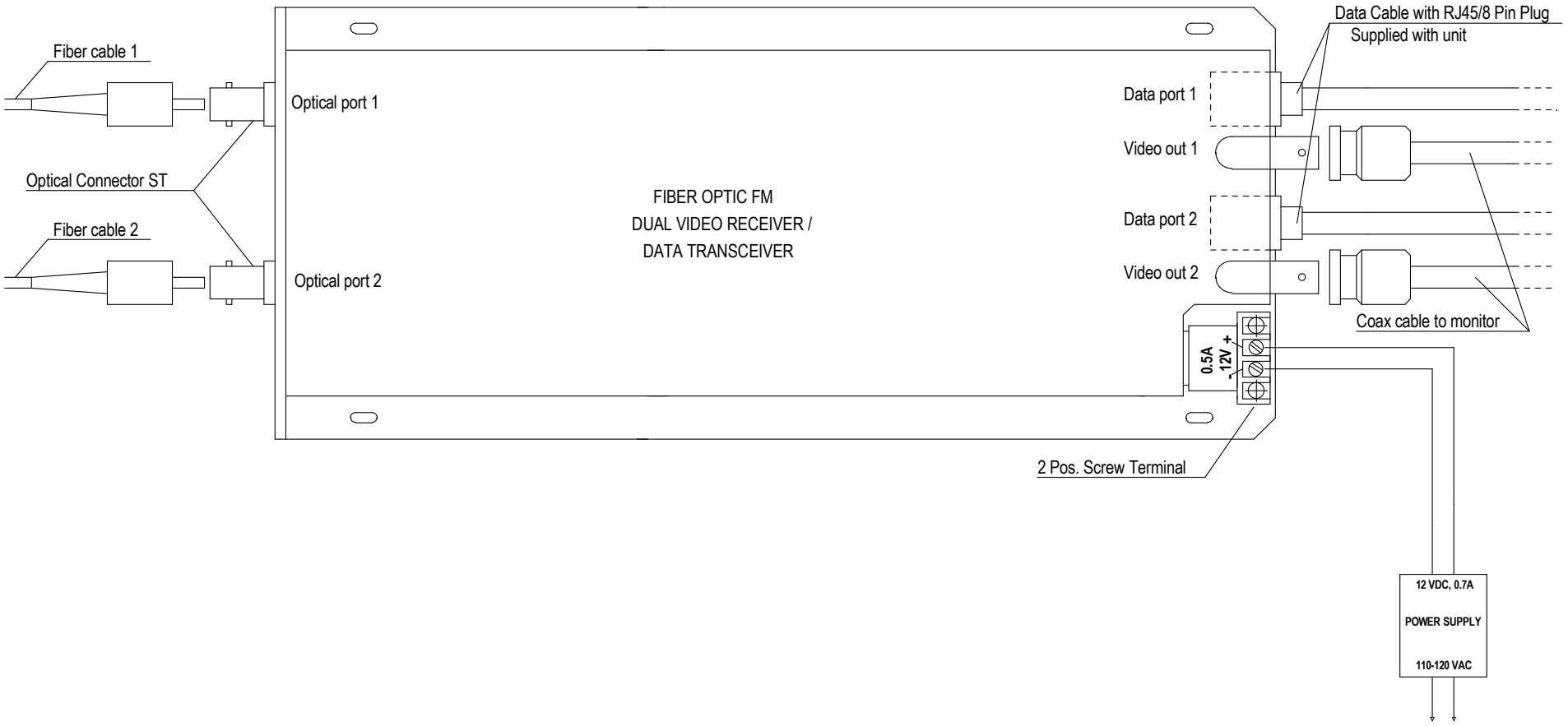
Indicator		
Video Link (Ch1/Ch2)	off	No link – no carrier signal present
	green	link is on – carrier signal present
Video Rx (Ch1/Ch2)	off	No video input or insufficient video signal present
	green	Composite Video signal present
Data Link (Ch1/Ch2)	off	No received optical signal present
	green	Optical signal received
Data Tx1 (Ch1/Ch2)	off	No data signal present at the optical transmitter Ch.1 input
	red	Data signal is present at the optical transmitter Ch.1 input
Data Rx1 (Ch1/Ch2)	off	No data signal present at the optical receiver Ch.1output
	green	Data signal is present at the optical receiver Ch.1 output
Data Tx2 (Ch1/Ch2)	off	No data signal present at the optical transmitter Ch.2 input
	red	Data signal is present to the optical transmitter Ch.2 input
Data Rx2 (Ch1/Ch2)	off	No data signal present at the optical receiver Ch.2 output
	green	Data signal is available at the optical receiver Ch.2 output

Data Connector Pinouts



RS-232	Tx1 (IN1)	Rx1 (OUT1)	Tx2 (IN2)	Rx2 (OUT2)
DATA SIGNAL +/-	1	3	5	7
GROUND	2	4	6	8

RS-232 Data Cable



233S-VR/DX-M2 Video Receiver / Data Transceiver

Connections Diagram