

MC2 Series 3G/HD/SDI Video BNC- ST Media Converters

MC2 Video Media Converter modules offer extended distance over single- mode fiber for high-speed serial digital video links for multi-protocol 3G/HD/SD/ DVB/ASI video applications with data transfer rates up to 2.97Gbps



MC2 Series Transmitter and Receiver

Key Features

- SMPTE 424M Compliant (up to 2.97Gbps)
- SMPTE 297M Optical Interface Compliant
- SMPTE 292M Compliant (Up to 1.485Gbps)
- SMPTE 259M/297M/305M Compatible (Up to 540 Mbps)
- DVB/ASI Compatible
- ATSC/SMPTE 310M Compatible (19.4 to 38.8 Mbps)
- Error Free Uncompressed SDI Pathological Pattern Operation
- +4.5 to 24 VDC Operating Voltage Range
- Power Supply Sold Separately or Included in Kit models
- RoHS-6 Compliant
- Rugged Construction
- Easy to Understand OLED Displays Simple, Real Time Operating Parameters and Diagnostics
- Status LED
- 75ohm BNC Plug Electrical Interface
- Line Equalizer on TX
- Cable Driver on RX
- ST Physical Contact Optical Interface
- +4.5 to 24 VDC Input Voltage
- TX Power Dissipation: 1.75 W
- RX Power Dissipation: 1.4 W
- 0°C to +70°C Operating Case Temperature

ORDERING INFORMATION				Receiver Part Number		Shipping Dimensions and Weight (each)
 Fiber Optics For Sale Co. COMPLETE SUPPLY SOLUTIONS				MC2-R-P-2-F1 3G/HD/SD PIN Pre-Amp 1260-1620nm Receiver		
Transmitter & Kit Part Numbers	Optical Trans - mit Power (dBm)			Receiver Optical Input Power (dBm)	Link Distance @ 2.97Gbps	
	Min	Typ	Max	Min / Max	Min / Typ	
MC2-T-P-2-F1 3G/HD/SD 1310nm FP Laser Transmitter	-9	-5	-3	-18.5 / +0	10 / 25 km 6 / 15 mi	16.25 x 11.25 x 4.25 inch 41 x 29 x 11 cm 1.1 lb 477 g
MC2-K-P-2-F1 Kit: MC2-T-P-2-F1 Trans - mitter, MC2-R-P-2-F1 Receiver and two VMDA-PS-5 Power Supplies	-9	-5	-3	-18.5 / +0	10 / 25 km 6 / 15 mi	16.25 x 11.25 x 4.25 inch 41 x 29 x 11 cm 3.1 lb 1.4 kg

Chart Abbreviations: Max = Maximum, Min = Minimum (worst case), Typ = Typical.

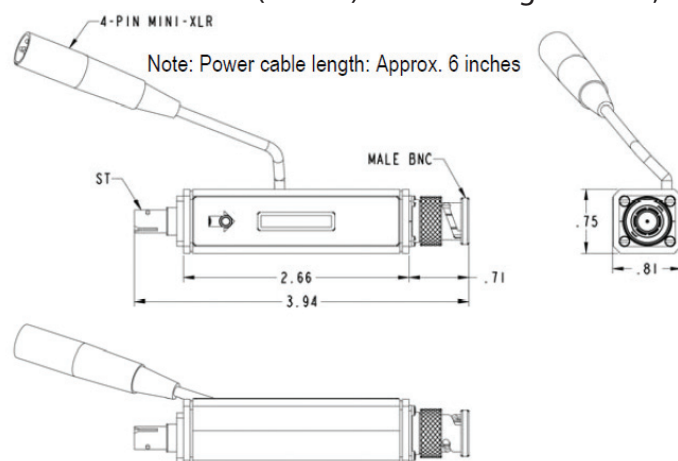
Use with wall power supply (Sold separately. Included with Kits.)

					
Part Number	Input Voltage	Output Voltage	Output Current	Connector Type	Power Supply Plug Type
VMDA-PS-5 (Power Supply sold separately.)	100V to 240V	5V	3.2A	4-Pin Mini-XLR Female	Interchangeable plugs for Australia, Europe, U.K. and U.S.
Shipping Dimensions		16.25 x 11.25 x 4.25 in		41 x 29 x 11 cm	
Shipping Weight		1.3 lb		568 g	

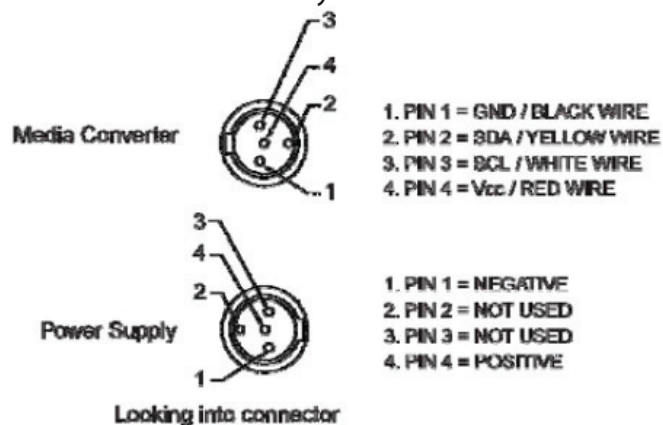
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Mechanical Dimensions (Inches)

Weight 0.16lb, 70g



Power Connector Pin Layouts



Status Indicator Lights

TX LED Indicator	
Status	Condition
Green	Normal Operation
Red	Transmit Fault
Blinking Red	DDMI Alarm
Blinking Orange	DDMI Warning

RX LED Indicator	
Status	Condition
Green	Normal Operation
Red	Optical Input Signal Out of Range
Blinking Red	DDMI Alarm
Blinking Orange	DDMI Warning

MC2 OLED Display DDMI Diagnostics, Alarms and Warnings

TX DISPLAY	
Diagnostic	Alarms & Warnings
Optical Output Power (dBm)*	Low or High Optical Power
Temperature (°C)	Low or High Temperature
Voltage (VDC)	Low or High Voltage
-	Low or High Transmitter Bias

RX DISPLAY	
Diagnostic	Alarms & Warnings
Optical Output Power (dBm)	Low or High Optical Power
Temperature (°C)	Low or High Temperature
Voltage (VDC)	Low or High Voltage

*Transmitter optical output power is most accurate with input signal applied.