19"/6 Media converter MC711

Media converter in a 19"/6 form factor

The MC711 is a rugged media converter for converting 50/125 1300nm multimode 100Mbs to 9/125 1300nm 1Gbs singlemode, or vice versa.

Built to take a beating

The media converter is made to withstand the harshest conditions over the long haul. It features aluminium casing, rugged MIL connectors for easy integration and will operate down to -40 C.

Guaranteed performance

Our products always come with a lifetime support to ensure your equipment maintains peak performance for many missions to come. We also serve units and stock spare parts for 5 years end-of-life.

Features

- 10-32 VDC
- USB 5 VDC
- Passively cooled

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Connector Interfaces

5V DC (back)	• 1x USB 2.0
DC IN (front)	• 1x Power
ETH1 MM 100Mbps (front)	• 1x ETH 100BASE-FX
ETH2 SM 1Gbps (front)	• 1x ETH 1000BASE-LX

Other Interfaces

2x Status indicator (front)
1x Status indicator (front)

Technical Specification

Blanking	Enable/disable all externally visible indicators from emitting light via the "blanking command"
LAN 1000BASE-LX	1000BASE-LX standard with SM 1310nm fiber
LAN 100BASE-FX	100BASE-FX standard with MM 1300nm
MIL-STD-1275D	5.3.2.2 5.3.2.3 5.3.2.4
Power consumption	5W
Power input	10-32 VDC
Power input USB	USB 5 VDC
Coating and color	Dupont AE0305-6603120 (RAL6031)
Cooling	Passively cooled
Dimensions	73x44 mm (2,9x1,8 inch) (WxH)
Earth point	M6 12mm
Rack Mounting depth	200mm (8 inch)
Surface treatment chassis	Chromit-Al
Weight	0.8 kg
MTBF	Greater than 25000 h

Environmental Specification (*designed to meet)

Functional Shock - Operating*	MIL-STD-810G. Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40g 11 ms
High temperature - Operating*	MIL-STD-810G, Method 501.5, Procedure II - Operation 55C (131F)
High temperature - Storage*	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)
Humidity*	MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ± 4 %rh Ten 24-hour cycles
IP Class (Solid Particle Protection)*	IP Class 6X
IP Class (Water)*	IP Class X5
Low air pressure - Rapid Decompression*	MIL-STD-810G, Method 500.5, Procedure III - Rapid Decompression 75.2kPa, corresponding to 2,438m (8.000 ft) 17kPa, corresponding to 12192m (40.000 ft)
Low air pressure - Operating*	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4572m (15.000 ft)
Low temperature - Operating*	MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)
Low temperature - Storage*	MIL-STD-810G, method 502.5, Procedure I - Storage -40 C (-40 °F)
Noise level*	Maximum noise level of 40dB SPL A-weighting @ 1m (3,3 ft) distance
Salt fog*	MIL-STD-810G Method: 509.5 5% +- 1% (by weight) Two cycles, 24h wet + 24h dry /cycle
Temperature Shock - Operating*	MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) - 40 °C (-40 °F)
Transit drop, in shipping package*	MIL-STD-810G, method 516.6, Procedure IV - Transit Drop. Table 516.6-VI, Transit drop test, < 45.4 kg (100 lbs), < 91 cm (36 inch), Manpacked or man-portable
Vibration - Helicopter*	MIL-STD-810G. Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter
Vibration - Loose Cargo*	MIL-STD-810G. Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/ trailer - loose cargo
Vibration - Tracked Vehicles*	MIL-STD-810G. Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles
Vibration - Wheeled Vehicle*	MIL-STD-810G. Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles

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EMC Specification (*designed to meet)	
CE EMI*	EN61000-6-3:2007
CE EMS*	EN55032:2015
EMI conducted CE102*	MIL-STD-461F, Method CE102 BASIC CURVE 10kHz to 10MHz
EMI radiated RE102*	MIL-STD-461F 2MHz – 18Ghz Navy Mobile & Army
EMS conducted CS101*	MIL-STD-461F, Method CS101, conducted suceptibility, power leads CURVE #1 30Hz to 150kHz
EMS conducted CS114*	MIL-STD-461F 10kHz - 200MHz Army, Ground
EMS conducted CS115*	MIL-STD-461F Conducted susceptibility, bulk cable injection, impulse excitation
EMS conducted CS116*	MIL-STD-461F 10 kHz to 100 MHz
EMS radiated RS103*	MIL-STD-461F 2MHz to 1GHz Army
ESD*	EN61000-4-2:2009 Level 3 EN50024:1998 Performance criteria B + A1:2001 + A2:2003