

# 19"/4 Media converter MC708



## Media converter in a 19"/4 form factor

The MC708 is a rugged media converter for converting 50/125 850nm multimode to 9/125 1310nm 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

- Passively cooled

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## Connector Interfaces

<b>X3 DC IN</b> (front)	• 1x Power
<b>X1 MM</b> (front)	• 1x 2CH MINI-3 MM 850nm 50/125
<b>X2 SM</b> (front)	• 1x MINI-1 SM 1310nm 9/125
<b>SERVICE</b> (back)	• 1x RS232 Service

## Other Interfaces

1x Status indicator (front)

## Technical Specification

<b>Blanking</b>	Enable/disable all externally visible indicators from emitting light via the "blinking command"
<b>MIL-STD-1275D</b>	5.3.2.2 5.3.2.3 5.3.2.4
<b>Power consumption</b>	3W
<b>Coating and color</b>	Dupont AE0305-6603120 (RAL6031)
<b>Cooling</b>	Passively cooled
<b>Dimensions</b>	110x44x140 mm (WxHxD)
<b>Earth point</b>	M6 12mm
<b>Surface treatment chassis</b>	Chromit-Al
<b>Weight</b>	1 kg (2,2 lbs)

## Environmental Specification (\* designed to meet)

<b>Functional Shock - Operating*</b>	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40g 11 ms
<b>High temperature - Operating*</b>	MIL-STD-810G, Method 501.5, Procedure II - Operation 55C (131F)
<b>High temperature - Storage*</b>	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)
<b>Humidity*</b>	MIL-STD-810G, Method 507.5, Procedure II - Aggravated 95 ± 4 %rh Ten 24-hour cycles
<b>IP Class (Solid Particle Protection)*</b>	IP Class 6X
<b>IP Class (Water)*</b>	IP Class X5
<b>Low air pressure - Rapid Decompression*</b>	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)

<b>Low air pressure - Operating*</b>	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4572m (15.000 ft)
<b>Low temperature - Operating*</b>	MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)
<b>Low temperature - Storage*</b>	MIL-STD-810G, method 502.5, Procedure I - Storage -40 C (-40 °F)
<b>Noise level*</b>	Maximum noise level of 40dB SPL A-weighting @ 1m (3,3 ft) distance
<b>Salt fog*</b>	MIL-STD-810G Method: 509.5 5% +- 1% (by weight) Two cycles, 24h wet + 24h dry /cycle
<b>Temperature Shock - Operating*</b>	MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) - 40 °C (-40 °F)
<b>Transit drop, in shipping package*</b>	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
<b>Vibration - Helicopter*</b>	MIL-STD-810G, Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter
<b>Vibration - Loose Cargo*</b>	MIL-STD-810G, Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo
<b>Vibration - Tracked Vehicles*</b>	MIL-STD-810G, Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles
<b>Vibration - Wheeled Vehicle*</b>	MIL-STD-810G, Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles

## EMC Specification (\* designed to meet)

<b>CE EMI*</b>	EN61000-6-3:2007
<b>CE EMS*</b>	EN55032:2015
<b>EMI conducted CE102*</b>	MIL-STD-461F, Method CE102 BASIC CURVE 10kHz to 10MHz
<b>EMI radiated RE102*</b>	MIL-STD-461F 2MHz - 18Ghz Navy Mobile & Army

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EMS conducted CS101*	MIL-STD-461F, Method CS101, conducted susceptibility, 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