

19"/4 Media converter MC712



Media converter in a 19"/4 form factor

The MC712 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

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

Other Interfaces

1x Status indicator (front)

Technical Specification

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| Blanking | Enable/disable all externally visible indicators from emitting light via the "blinking command" |
| MIL-STD-1275D | 5.3.2.2 5.3.2.3 5.3.2.4 |
| Power consumption | 3W |
| Coating and color | Dupont AE0305-6603120 (RAL6031) |
| Cooling | Passively cooled |
| Dimensions | 110x44x140 mm (WxHxD) |
| Earth point | M6 12mm |
| Surface treatment chassis | Chromit-Al |
| Weight | 1 kg (2,2 lbs) |
| MTBF | 652099 h |

Environmental Specification (*designed to meet)

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| 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)

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| Low air pressure - Operating* | MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4572m (15.000 ft) |
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| Low temperature - Operating* | MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F) |
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| Low temperature - Storage* | MIL-STD-810G, method 502.5, Procedure I - Storage -40 C (-40 °F) |
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| Noise level* | Maximum noise level of 40dB SPL A-weighting @ 1m (3,3 ft) distance |
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| Salt fog* | MIL-STD-810G Method: 509.5 5% +- 1% (by weight) Two cycles, 24h wet + 24h dry /cycle |
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| 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) |
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| 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 |
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| Vibration - Helicopter* | MIL-STD-810G, Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter |
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| Vibration - Loose Cargo* | MIL-STD-810G, Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo |
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| Vibration - Tracked Vehicles* | MIL-STD-810G, Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles |
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| 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)

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| 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 |

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| | Navy Mobile & Army |
| 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 |