2-Channel Ethernet to Fibre Media Converter

MCI-422, MM/SM

The MCI-422 is a simple and cost effective Ethernet device suitable for use in a wide range of factory and building automation applications. The device can be used as either a switch or a dual channel converter. Two models are available – The SC2 for use on up to 2 km (1.24 mi) of multimode fibre and the SC30 for single-mode applications up to 30 km (18.6 mi).

The unit is designed for DIN rail mounting into industrial cabinets allowing simple Ethernet connections to be established between PLCs, I/O units, drives, inverters and HMIs. The dual power input makes the unit ideal in these types of application and the fault relay can be connected to an I/O unit to provide simple network management.

Designed to work in industrial environments with its IP 30 Aluminium housing and a wide temperature specification the MCI-422 is an ideal automation solution,

The MCI-422 is easy to use, simply connect power to the screw terminals and plug in your RJ-45 cables. If you plan to use the fault contacts a DIP switch allows configuration whilst LEDs provide simple diagnostics if required.

<table>
<thead>
<tr>
<th>Art.no</th>
<th>Description</th>
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<tbody>
<tr>
<td>3624-0100</td>
<td>Westermo MCI-422-MMSC2, Multi-mode 2 km</td>
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<tr>
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<td>2 km distance, 50~62.5/125 µm Multi-mode Fibre cable</td>
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<tr>
<td>3624-0110</td>
<td>Westermo MCI-422-MMSC30, Single-mode 30 km</td>
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<td>30 km distance, 8~10/125 µm Single-mode Fibre cable</td>
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<tr>
<td>3125-0001</td>
<td>PS-30, Power supply, DIN mounted (Accessories)</td>
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Specifications MCI-422, MM / SM

Dimensional drawing

![Dimensional drawing of MCI-422, MM / SM](image)

Dimensions (W x H x D) 55 mm x 120 mm x 99 mm
Weight 550 g
Ingress protection IP 30
Mounting DIN-rail mounting

Environmental conditions

Operating temperature -25 to +75°C (–13 to +167°F)
Storage & Transport temperature -40 to +75°C (–40 to +167°F)

Power

Operating voltage 10-60 VDC
Rated voltage 24 VDC
Power consumption 6 W @ 24 VDC

Interfaces

Ethernet 2 × RJ-45, 10 Mbit/s or 100 Mbit/s
Fibre 1 × SC Fibre, 100 Mbit/s, 1310 nm
Digital Output 1 x Dry Relay Output with 1A @ 24 VDC ability

Protocols and Functionality

Ethernet Technology IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3u 100Base-FX, IEEE 802.3x Flow Control and Back Pressure
Switch Technology 3.2 Gbit/s Store and Forwarding Technology
System forwarding 1.19 Mega packets per second, 64 bytes packet size. (Switch Mode); 14880 pps for 10Base-T, 148810 pps for 100Base-TX/ FX
MAC Address 1K MAC address entries with automatic learning and aging (Switch Mode only)
Packet Buffer 512 kbits shared memory
Forwarding Technology Store and Forward
Link lose forward Supports Bi-directional Link Loss Forwarding function (Converter mode only)
Operating Modes Switch Mode: data exchange on 4 ports (Channel A, B exchange)
Converter mode: data forwarding on independent channel (A, B)

Agency approvals and standards compliance

EMC EN 61000-6-2, Immunity industrial environments
EN 61000-6-4, Emission industrial environments
Shock & Vibration IEC 60068-2-6, IEC 60068-2-27, IEC 60068-2-32