

# Industrial Ethernet Media Converter

## MCW-211

- ⌘ Easy to install and use
  - Purpose built DIN rail casing with integral clip
  - Port auto-negotiation and polarity detection
  - Transparent to industrial Ethernet protocols
- ⌘ Designed for use in harsh industrial applications
  - Dual 10 – 57 VDC power input
  - Total galvanic isolation
  - IP 21
- ⌘ Robust for long service life
  - 540,000 hours MTBF to MIL-HDBK-217K
  - –25 to +70°C (–13 to +158°F) with no moving parts
  - Industrial EMC, shock and vibration testing
- ⌘ Diagnostic fault indication and legacy connectivity
  - Link fault forwarding
  - Diagnostic LEDs
  - DIP switches to lock port parameters for old equipment



**EN 61000-6-2**  
Industrial Immunity

**EN 61000-6-3**  
Residential Emission

The MCW-211 is an unmanaged media converter designed for easy use in heavy duty industrial applications. The MCW-211 transparently converts between 10/100Base-TX and 100Base-FX. A number of standard fibre optic connection types are supported including LC, SC and ST. The unit supports 802.1Q long packets which allows all standard industrial Ethernet protocols to be used.

The MCW-211 is designed for use in industrial applications and so has dual power inputs for 10 to 57VDC operation. Total galvanic isolation between the power supply and TX port helps to avoid ground loop currents and hence provide ultra reliable connections. The IP 21 rating ensures that the unit can be installed in locations where condensed water may occur.

Only industrial grade components are used which gives the MCW-211 an MTBF of 540,000 hours and ensures a long service life. A wide operating temperature range of –25 to +70°C (–13 to +158°F) can be achieved with no moving parts. The MCW-211 has been tested both by Westermo and external test houses to meet many EMC, isolation, vibration and shock standards, all to the highest levels suitable for heavy industrial environments.

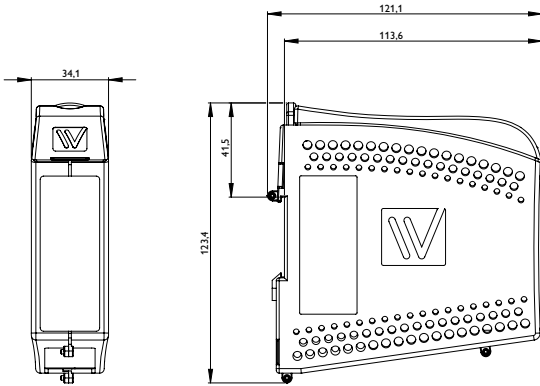
Easy to understand LED indicators provide simple diagnostics if network problems arise. The link fault forward function helps to transfer indication of media failure onto connected ports to ensure that the MCW-211 can be used in resilient network structures. Data rate and flow control can be locked by DIP switch which can eliminate problems with old legacy Ethernet equipment that is unable to support auto negotiation.

### Ordering Information

Art.no	Description
3645-0050	MCW-211-MM-LC2
3645-0001	MCW-211-MM-SC2
3645-0010	MCW-211-MM-ST2
3645-0020	MCW-211-SM-SC15
3645-0030	MCW-211-SM-LC15
3645-0040	MCW-211-SM-LC40

# Specifications MCW-211

## Dimensional drawing



Dimension W x H x D 34 x 123 x 121 mm

Weight 0.25 kg

Degree of protection IP 21

### Power

Operating voltage	10 to 60 VDC
Rated current	200 mA @ 12 VDC 100 mA @ 24 VDC 50 mA @ 48 VDC

### Interfaces

Ethernet TX	1 x 10 Mbit/s or 100 Mbit/s
Ethernet FX	1 x 100 Mbit/s

### Temperature

Operating	-25 to +70°C
Storage & Transport	-40 to +70°C

### Agency approvals and standards compliance

EMC	EN 61000-6-2, Immunity industrial environments
	EN 61000-6-4, Emission industrial environments
Marine	DNV Standard for Certification no. 2.4 <sup>1</sup>
Note	<sup>1</sup> Applicable only for 3645-0030, 3645-0040, 3645-0050 (MCW-211-SM-LC15, MCW-211-SM-LC40, MCW-211-MM-LC2)