

# Gigabit Ethernet Media Converter

## Westermo MCI-211G

- Converts 10/100/1000TX to Gigabit Fibre
- Flexible SFP Fibre transceiver design
- Auto Fault Detection and Alarm
- Fault Alert for port and power
- Two way Link loss forwarding
- Power redundancy with wide range input
- IP-31 grade protection with wide range operating temperature
- 1.5 KV Hi-Pot testing passed



The Westermo MCI-211G is an industrial Gigabit Ethernet media converter. It has a rugged aluminum alloy case with IP-31 grade ingress protection as well as providing excellent heat dissipation characteristics.

The MCI-211G can operate over a wide voltage input range. It also has dual power inputs to ensure making the unit ideal in applications where a secondary power source is used to maintain high system integrity.

The Westermo MCI-211G uses a hot-swappable Small Formfactor Pluggable (SFP) Fibre transceiver allowing the unit to operate over pretty much any type and distance of fibre supported by SFP technology.

The MCI-211G features Link Fault Forwarding (LFF) in order to forward link status changes to alert remote or central management systems via the connected media. In industrial systems however alarms can be shown on the fault contact giving an alternative method of fault detection. This fault contact can be easily configured with a simple DIP switch.

## Specifications

Technology	
Standard	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z Gigabit Ethernet Fibre, IEEE802.3x flow control and back-pressure. IEEE802.1p Class of Service, IEEE802.1Q Quality of Service

Performance	
Forwarding Technology	Store and Forward technology with 64 ~1536 bytes packet forwarding ability
System Throughput	1.49 Mpps
Packet buffer	2.75 Mbits
Link Fault Forwarding	Two-way loss-signature auto forwarding, configured by DIP switch
Event Alarm	Configurable relay alarm output for port or power events

Interface	
Number of Ports	1 x 10/100/1000 Base-TX with Auto MDI/MDI-X function, Auto-Negotiation 1 x SFP socket with hot-swappable function for Gigabit Ethernet SFP Transceiver
Connectors	10/100/1000 Base-TX: RJ-45 SFP socket: support 3.3 V Gigabit Ethernet 1.25 Gbit/s Fibre Transceiver. Terminal block: 4-Pin for redundant power input; 2-Pin for alarm relay output
Cables	RJ-45 Connector: 4 pairs of Cat-5 UTP/STP cable with EIA/TIA 568B type conductor arrangement for 1000Base-T. Maximum link distance is 100 meters
Configuration DIP Switch	DIP 1: Port Event Alarm Enable/Disable DIP 2: Power Event Alarm Enable/Disable DIP 3: Link Fault Forwarding Enable/Disable
Diagnostic LED	System: Power (Green) x2, Link Fault Forwarding (Red) x1, Alarm (Red) x1 RJ-45 port: Speed (Green): On (1000 Mbit/s Link), Blinking (100 Mbit/s Link), Off (10 Mbit/s Link or disconnect). Link/Activity (Green): On (Link), Blinking (Activity) Full Duplex/Collision (Yellow): On (link at full duplex mode), Blinking (Collision) SFP port: Link/Activity (Green): On (Link), Blinking (Activity) Full Duplex/Collision (Yellow): On (link at full duplex mode), Blinking (Collision)

Power Requirements	
System Power	DC 24V (12~48V) with polarity reverse correction and over current protection
Consumption	8 Watts @ DC 24 V (Maximum)

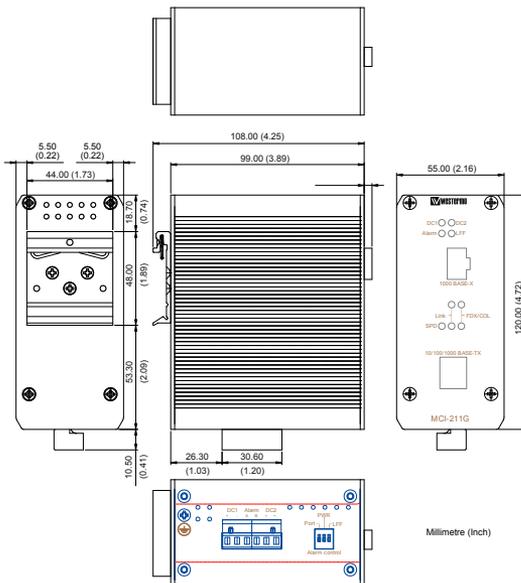
Mechanical	
Installation	DIN-Rail mount
Case	Aluminum alloy metal case with grade 31 of ingress protection
Dimension	120 mm (H) x 55 mm (W) x108 mm (D) (with DIN rail clip)
Weight	0.904 kg with package
	0.655 kg without package

Environmental	
Operating Temperature	-25 ~ 70°C
Operating Humidity	0% ~ 95%, (non-condensing)
Storage Temperature	-40 ~ 85°C
Storage Humidity	0% ~ 95%, (non-condensing)

Regulatory Approvals	
Hi-Pot	AC 1.5 KV on port to port and port to power
EMI:	FCC Class A, CE/EN55022
EMC immunity interface	EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11
Safety	CE/EN60950
Shock	IEC60068-2-27
Vibration	IEC60068-2-6
Free Fall	IEC60068-2-32

Optional Accessories	
Gigabit Multi-Mode SFP Transceiver	
Gigabit Single-Mode SFP Transceiver	
Gigabit BIDI/WDM Single-Mode SFP Transceiver	

**Dimensions (Unit – mm / In)**



Ordering Information	
Art.no.	Description
3624-0001	Westermo MCI-211G
	Quick Installation Guide