

# IMC-450 / 470

## 100Mbps and 10/100/1000Mbps Media Converter



### Features

- Designed with internal AC power
- Supports diagnostic features including Link Loss and Fiber Alert
- Optional 10/100/1000Mbps copper ports
- Optional Link Fault Pass Through (LFPT)
- Supports range of SFP modules
- Supports multiple mounting options (desktop, DIN rail or wall-mount)

### Introduction

The IMC-450 and 470 series are standalone media converters with an optional internal power security device that makes the connection between copper and fiber cables. They can be installed anywhere a network connection is required. In addition, these media converters feature automatic link restoration. They increase the scalability of a network by providing rate conversion, distance extension, and multiple types of fixed fiber connectors or open slots for small form-factor pluggable (SFP) connections.

The IMC-450 and 470 support troubleshooting features such as Link Loss and Fiber Alert which can be enabled/disabled by DIP switches. The diagnostic features allow the network administrator to quickly identify network faults. The IMC-470 series provides two 10/100/1000Mbps copper UTP ports and one fiber port. They are available in an SFP form factor, as well as for fixed-fiber in single-mode and multi-mode. Link Fault Pass Through (LFPT) functionality allows network operators to determine a fault condition on the interface.

### Specifications

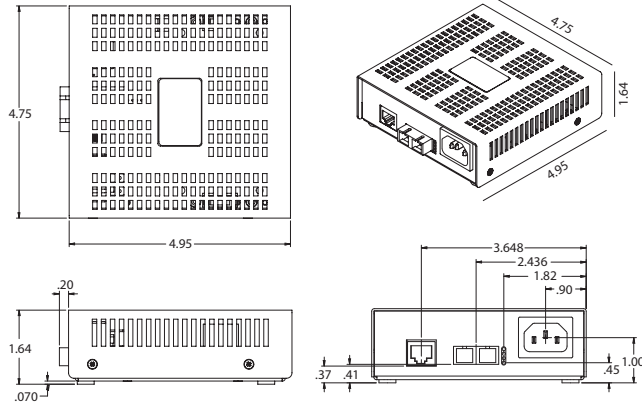
Technical	
IEEE 802.3u 100Base-TX, 100Base-FX or SX (IMC-450 series)	
IEEE 802.3ab 1000Base-T, 1000Base-LX or SX (IMC-470 series)	
Supports diagnostic LEDs	
Supports AutoCross, Link Loss and Fiber Alert	
Supports Auto Negotiation	
Supports jumbo frame up to 10000 bytes	
1 x RJ-45 connector (IMC-450 series)	
2 x RJ-45 connector (IMC-470 series)	
Power Input	
100-240 V AC, 50/60Hz, 1.0A (IMC-450 series)	
100-240 V AC, 50/60Hz, 7 watts maximum working power (IMC-450 series)	

Environment	
Operating Temperature	0 to +50 °C (+32 to +122 °F) (IMC-450 series)
	-10 to +50 °C (+14 to +122 °F) (IMC-470 series)
Storage Temperature	-20 to +70 °C (0 to +160 °F) (IMC-450 series)
	-35 to +75 °C (-31 to +167 °F) (IMC-470 series)
Operating Humidity	5 ~ 95% (non-condensing)
	0 ~ 10,000 ft. altitude
MTBF	0.38 million hours (IMC-450 series)
	1.8 million hours (IMC-470 series)
Mechanical	
Dimensions (H x W x D)	4.20 x 12.17 x 11.64 cm (1.64 x 4.75 x 4.9 in) (IMC-450 series)
	2.03 x 10.16 x 10.16 cm (0.80 x 4.0 x 4.0 in) (IMC-470 series)
Weight	0.58 kg (1.3 lb) (IMC-450 series)
	0.3kg (0.7lb) (IMC-470 series)
Certifications	
CE, FCC Class A, UL/cUL, CSA	

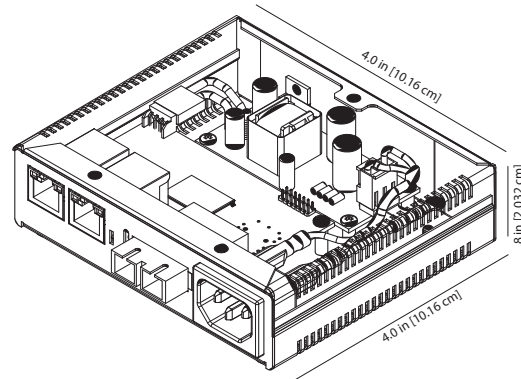
## Dimensions

Unit: inch

### IMC-450



### IMC-470



## Ordering Information

### Media Converter with US power cord

Part Number	Also Known As	Ethernet Speed	Optical Mode	Wavelength	Distance	Optical Connector	Ethernet Connector
IMC-450-M8-US	855-10930	100 Mbps	Multi-mode	850 nm	2 km	SC	1 x RJ45
IMC-450-M8ST-US	855-10929	100 Mbps	Multi-mode	850 nm	2 km	ST	1 x RJ45
IMC-450-MM-US	855-10928	100 Mbps	Multi-mode	1300 nm	5 km	SC	1 x RJ45
IMC-450-MMST-US	855-10927	100 Mbps	Multi-mode	1300 nm	5 km	ST	1 x RJ45
IMC-450-SE-US	855-10932	100 Mbps	Single-mode	1310 nm	40 km	SC	1 x RJ45
IMC-450-SEST-US	855-10931	100 Mbps	Single-mode	1310 nm	40 km	ST	1 x RJ45
IMC-450-SL-US	855-10934	100 Mbps	Single-mode	1310 nm	80 km	SC	1 x RJ45
IMC-450-SLST-US	855-10933	100 Mbps	Single-mode	1310 nm	80 km	ST	1 x RJ45
IMC-470-MM-US	856-30601	10/100/1000 Mbps	Multi-mode	850 nm	550 m	SC	2 x RJ45
IMC-470-M1-US	856-30602	10/100/1000 Mbps	Multi-mode	1300 nm	2 km	SC	2 x RJ45
IMC-470-SM-US	856-30603	10/100/1000 Mbps	Single-mode	1310 nm	10 km	SC	2 x RJ45
IMC-470-SE-US	856-30604	10/100/1000 Mbps	Single-mode	1310 nm	40 km	SC	2 x RJ45
IMC-470-SFP-US	856-30600	10/100/1000 Mbps	Various	Various	Various	SFP	2 x RJ45

### Media Converter w/o power cord

Part Number	Also Known As	Ethernet Speed	Optical Mode	Wavelength	Distance	Optical Connector	Ethernet Connector
IMC-450-M8	-	100 Mbps	Multi-mode	850 nm	2 km	SC	1 x RJ45
IMC-450-M8ST	-	100 Mbps	Multi-mode	850 nm	2 km	ST	1 x RJ45
IMC-450-MM	-	100 Mbps	Multi-mode	1300 nm	5 km	SC	1 x RJ45
IMC-450-MMST	-	100 Mbps	Multi-mode	1300 nm	5 km	ST	1 x RJ45
IMC-450-SE	-	100 Mbps	Single-mode	1310 nm	40 km	SC	1 x RJ45
IMC-450-SEST	-	100 Mbps	Single-mode	1310 nm	40 km	ST	1 x RJ45
IMC-450-SL	-	100 Mbps	Single-mode	1310 nm	80 km	SC	1 x RJ45
IMC-450-SLST	-	100 Mbps	Single-mode	1310 nm	80 km	ST	1 x RJ45
IMC-470-MM	-	10/100/1000 Mbps	Multi-mode	850 nm	550 m	SC	2 x RJ45
IMC-470-M1	-	10/100/1000 Mbps	Multi-mode	1300 nm	2 km	SC	2 x RJ45
IMC-470-SM	-	10/100/1000 Mbps	Single-mode	1310 nm	10 km	SC	2 x RJ45
IMC-470-SE	-	10/100/1000 Mbps	Single-mode	1310 nm	40 km	SC	2 x RJ45
IMC-470-SFP	-	10/100/1000 Mbps	Various	Various	Various	SFP	2 x RJ45

## Accessories

Part Number	Description
895-39226	Rackmount Bracket

\* SFP fibers sold separately – available at [www.advantech.com](http://www.advantech.com)