

# Modular 10/100/1000 Mbps Ethernet Media/Mode Converter

IE-iMcV-MultiWay

# ADVANTECH

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## PRODUCT FEATURES

- Versatile 4 port device
- SNMP manageable
- Dual Copper to Fiber SFP Media/Mode Converter (Two Gigabit Media Converter in One)
- Extended temperature
- RS-232 CLI (Command Line Interface) Console Port
- Module fits into any MediaChassis or iMediaChassis series

The IE-iMcV-MultiWay is a highly flexible dual media/mode converter, ideal for use in a Ethernet fiber infrastructure as well as a customer's network edge as a CPE. The IE-iMcV-MultiWay, in a modular form factor, comes with two SFP ports, and two 10/100/1000 BaseT Copper RJ45 ports. The SFP supports both copper and fiber SFPs are supported for Fast and Gigabit Ethernet applications.

There are four distinct DIP Switch selectable configurations that the IE-MultiWay supports. Among them are a 1+1 Uplink Protection revertive mode, 1+1 Uplink Protection non-revertive mode, a 4-port Gigabit Switch, and a Dual Copper to Fiber SFP Media/Mode Converter (two gigabit fiber media converters in one)..

The IE-iMcV-MultiWay is an value based, Carrier-class managed Gigabit Ethernet solution ideal for service providers' fiber networks because it combines media conversion with an advanced features set for network management and troubleshooting, including port based VLAN and VLAN trunks, IEEE 802.1ad (Q-in-Q) and a user definable EtherType. Information such as interface statistics, RMON1 statistics, and OAM status and control are a few of the many accessible features from the Serial CLI, Telnet CLI and SNMP Management Software. Advantech SNMP based Network Management software (iView2) is provided free of charge.

## ORDERING INFORMATION

MODEL NUMBER	FIBER	FIBER PORTS	RANGE	ETHERNET PORTS	ETHERNET CONNECTOR
<b>IE-iMcV-MultiWay *</b>					
858-18121	SFP	2	Various	2	RJ45

\* SFPs sold separately.

### IE-SFP Modules: 100 to 155 Mbps

MODEL NUMBER	DESCRIPTION	FIBER TYPE	RANGE	POWER BUDGET
808-38101	MM850	LC	2 km	14.5 (db)
808-38103	SM1310	LC	15 km	13 (db)
808-38104	SM1310/PLUS	LC	40 km	31 (db)
808-38105	SM1550/LONG	LC	80 km	31 (db)

### IE-SFP Modules: 1 Gbps Gigabit Ethernet

MODEL NUMBER	DESCRIPTION	FIBER TYPE	RANGE	POWER BUDGET
808-38201	MM850	LC	550 m	7.5 (db)
808-38203	SM1310/PLUS	LC	30 km	17 (db)
808-38204	SM1550/LONG	LC	40 km	17 (db)

### IE-Gigabit Copper SFP\* Modules

MODEL NUMBER	CONNECTOR	SPEED	FIBER TYPE	RANGE
808-39001	RJ45 Copper	10/100/1000 Mbps	LC	100 m
808-39010	RJ45 Copper	1000 Mbps	LC	100 m

\*The two SFP ports can support 100Mbps or Gigabit fiber, as well as 10/100/1000 Mbps or Gigabit copper SFPs.



iView2 WebServer Version

All product specifications are subject to change without notice.  
IE-iMcV-MultiWay\_1519ds

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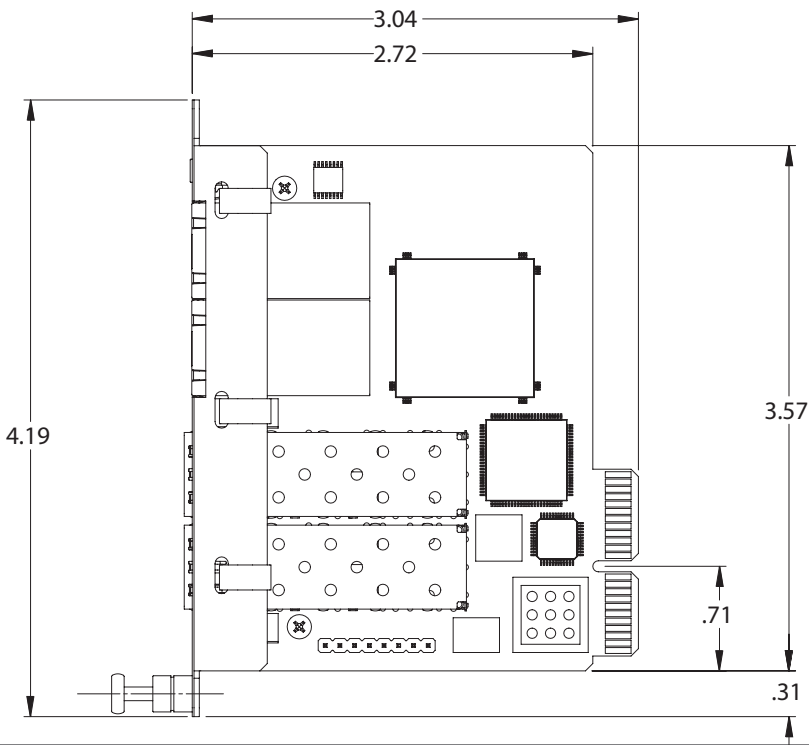
## SPECIFICATIONS

TECHNICAL	
IEEE 802.3 10Base-T twisted pair	
IEEE 802.3u 100Base-TX twisted pair	
IEEE 802.3ab 1000Base-T twisted pair	
IEEE 802.3z 1000Base-LX or SX fiber	
Extended temperature range	
Plug-and-play operation	
Accepts RJ-45 and SFP connectors	
50/125µm or 62.5/125µm multi-mode fiber	
9/125µm single-mode fiber	
Single-strand fiber and CWDM models	
FX and TX Auto Negotiation	
AutoCross for MDI/MDIX	
Layer 2 packet switching, store and forward (forwarding rate: 14,880 pps for 10 Mbps, 148,000 pps for 100 Mbps, 1,480,000 Mbps for 1,000 Mbps)	
Jumbo Frames support (up to 10240) at Gigabit speed	
MECHANICAL	
Dimensions	10.74H x 2.0W x 7.05D cm (4.19H x 0.78W x 2.75D in)
Shipping Weight	0.11 kg (0.30 lb)

ENVIRONMENTAL	
Operating Temperature	-40 to +85 °C (-40 to +185 °F)
Storage Temperature	-55 to +125 °C (-67 to +257 °F)
Operating Humidity	5 to 95%, non-condensing, 0 to 10,000 ft. altitude
MEANTIME BEFORE FAILURE (MTBF)	
MTBF	522,644 Hours
Calculation Method	MIL217F Parts Counts Reliability Prediction Method
REGULATORY APPROVALS	
FCC Class A	
UL, cUL, CE	
IEEE 802.3ah, 802.1ag, 802.1q VAN	
SFP-MSA SFP Standard (September 14, 2000)	
SFF-8472 DDMI Standard (rev 1.0)	
CE - Directives	2014/30/EU - Electromagnetic Compatibility Directive 2011/65/EU - Reduction of Hazardous Substances Directive (RoHS) 2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)
CE - Standards	EN 55032 Class A - Electromagnetic compatibility of multimedia equipment - Emission requirements EN 55024 +A1 - Information Technology Equipment - Immunity Characteristics - Limits and methods of measurement EN 61000-6-3 +A1 - Generic emission standard for residential, commercial and light-industrial environments (Class A) EN 61000-6-1 - Generic immunity standard for light-industrial environments

## MECHANICAL DIAGRAM

(dimensions = inches)



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