

Industrial Grade 10/100 Miniature Media Converters

IE-MiniMc series

ADVANTECH

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PRODUCT FEATURES

- Value-add industrial grade extended temperature performance
- PNP, auto negotiation mode
- Auto-cross feature for the twisted- pair port cable
- Stand-alone unit in a small, rugged metal enclosure with a compact, external power supply
- IEEE 802.3af compliant

Measuring 8.51D x 4.57W cm (3.35D x 1.8W in), the IE-MiniMc series converters are some of the industry's smallest copper-to-fiber media converters, with both data connections on the same side. IE-MiniMc family media converters are a fraction of the cost of other industrial grade alternatives. These unmanaged products provide the ease and convenience of plug-and-play operation with features including Auto-Negotiation and Auto-Cross.

The IE-MiniMc extends 10 Mbps and 100 Mbps twisted pair network segments up to 80 km over fiber. Both a media and data rate converter, the IE-MiniMc features 10/100 Auto Negotiation on the copper port while the fiber port operates at 100 Mbps full duplex. IE-MiniMc 10/100 switching fiber converters are ideal for all premises, FTTH, LAN-to-LAN or LAN-to-MAN fiber networking applications.

Multiple powering options include Power-over-Ethernet (PoE/PD), AC wall adapter and USB, which offers unsurpassed flexibility for a variety of installations.

ORDERING INFORMATION

MODEL NUMBER	FIBER	FIBER PORTS	RANGE	ETHERNET PORTS	ETHERNET CONNECTOR
IE-MiniMc TP-TX/FX					
BB-855-19720	MM850-ST	1	2 km	1	RJ-45
BB-855-19721	MM850-SC	1	2 km	1	RJ-45
BB-855-19722	MM1300-ST	1	5 km	1	RJ-45
BB-855-19723	MM1300-SC	1	5 km	1	RJ-45
BB-855-19724	SM1310/PLUS-ST	1	30 km	1	RJ-45
BB-855-19725	SM1310/PLUS-SC	1	30 km	1	RJ-45
BB-855-19730	SM1550/LONG-SC	1	80km	1	RJ-45
SINGLE STRAND FIBER *					
BB-855-19752	SSFx-SM1310-SC	1	20 km	1	RJ-45
BB-855-19753	SSFx-SM1550-SC	1	20 km	1	RJ-45

* These products have single-strand fiber technology.

ACCESSORIES – sold separately

BB-806-39105 - DIN Rail Clip

BB-850-13086 - IE-PowerTray/18-AC (-20 to +70 °C), 18-slot AC Powered Chassis

BB-895-39229 - Wall Mount Bracket

BB-806-39629 - USB Power Cable, 0.3 m (12 in)

BB-806-39720 - AC Power Adapter

All product specifications are subject to change without notice.
IE-MiniMc_0619ds

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SPECIFICATIONS

TECHNICAL	
IEEE 802.3 10Base-T twisted pair	
IEEE 802.3u 100Base-TX twisted pair	
IEEE 802.3u 100Base-FX fiber	
IEEE 802.3af Power Over Ethernet	
Supports jumbo packets up to 1916 bytes	
Plug-and-play operation	
RJ-45 and ST or SC ports available	
50/125µm or 62.5/125µm multi-mode fiber	
9/125µm single-mode fiber	
Available with single-strand fiber support	
Includes terminal DC power block	
Country-specific, high-reliability power adapter	
Auto Negotiation	
Auto-Cross for MDI/MDIX	
Layer 2 packet switching, store and forward (forwarding rate: 14,881 pps for 10 Mbps, 148,100 pps for 100 Mbps)	
Status LEDs	
MECHANICAL	
Dimensions	2.11h x 4.57w x 8.51d cm (0.83h x 1.80w x 3.35d in)
Shipping Weight	0.317 kg (0.7 lb)
INPUT SPECIFICATIONS	
DC Terminal: 7 - 50 V DC, 1A - 0.1A	
Barrel Connector: 5 V DC	
PoE: Maximum supply voltage is 50V	

ENVIRONMENTAL	
Operating Temperature	DC or PoE (PD): -40 to +85 °C (-40 to +185 °F) AC wall adapter: -10 to +50 °C (+14 to +122 °F)
Storage Temperature	-40 to +85 °C (-40 to +185 °F)
Operating Humidity	5 to 95% (non-condensing)
MEANTIME BETWEEN FAILURES (MTBF)	
MTBF	796650 hours
MTBF Calculation Method	MIL217F Parts Count Reliability Prediction
REGULATORY APPROVALS, DIRECTIVES, STANDARDS	
FCC Class A (using DC terminal or PoE power)	
FCC Class B (using any DC jack, optional)	
UL/cUL, CSA, CE	
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) 2014/35/EU - Low Voltage Directive
CE – Standards	EMC: 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 Class A – Generic Emission Standard for Residential, Commercial and Light-industrial Environments Safety: EN 60950 +A1 +A11 +A12 +A2

MECHANICAL DIAGRAM

Dimensions = inches (millimeters)

