



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Industrial Grade 10/100 Miniature Media Converters

IE-MiniMc

B+B SMARTWORX

Powered by

ADVANTECH

www.advantech-bb.com



## 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 less than 3.5 inches deep and 2 inches wide, 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. The IE-MiniMc family of 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.

Designed and manufactured in the USA, the IE-MiniMc extends 10 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, FTTD, 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
<b>IE-MiniMc TP-TX/FX</b>					
855-19720	MM850-ST	1	2 km	1	RJ-45
855-19721	MM850-SC	1	2 km	1	RJ-45
855-19722	MM1300-ST	1	5 km	1	RJ-45
855-19723	MM1300-SC	1	5 km	1	RJ-45
855-19724	SM1310/PLUS-ST	1	30 km	1	RJ-45
855-19725	SM1310/PLUS-SC	1	30 km	1	RJ-45
855-19730	SM1550/LONG-SC	1	80km	1	RJ-45
<b>SINGLE STRAND FIBER *</b>					
855-19750	SSFX-MM1310-SC	1	2 km	1	RJ-45
855-19751	SSFX-MM1550-SC	1	2 km	1	RJ-45
855-19752	SSFX-SM1310-SC	1	20 km	1	RJ-45
855-19753	SSFX-SM1550-SC	1	20 km	1	RJ-45
855-19754	SSFX-SM1310/PLUS-SC	1	40 km	1	RJ-45
855-19755	SSFX-SM1550/PLUS-SC	1	40 km	1	RJ-45

\* These products have single-strand fiber technology.

## ACCESSORIES

- 806-39105 - DIN Rail Clip
- 850-13086 - IE-PowerTray/18-AC (-20 to +70°C), 18-slot AC Powered Chassis
- 895-39229 - Wall Mount Bracket
- 806-39629 - USB 12" Power Cable
- 806-39720 - AC Power Adapter



## IN THE FIELD Long Distance Connections in Airport Concourse

Industry: Transaction Management – Retail & Banking  
Product: IE-MiniMc Fiber/Copper Media Converter

www.bb-elec.com/Airport

Carrier data charges may apply.

All product specifications are subject to change without notice.  
IE-MiniMc\_1217ds

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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	0.83H x 1.80W x 3.35D, inches
Shipping Weight	0.7 lbs (0.317 kg)
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 185 °F (-40 to +85 °C)
Operating Temperature: AC wall adapter	+14 to +122 °F (-10 to +50 °C)
Storage Temperature:	-40 to +185 °F (-40 to +85 °C)
Operating Humidity	5 to 95% (non-condensing)
MEANTIME BEFORE FAILURE (MTBF)	
MTBF	796,650 hours
REGULATORY APPROVALS	
FCC Class A (using DC terminal or PoE power)	
FCC Class B (using any DC jack, optional)	
UL/cUL, CSA, CE	

## MECHANICAL DIAGRAM

(dimensions in inches & millimeters)

