

## SELECTING AN ETHERNET COPPER TO FIBER CONVERTER FOR YOUR NEXT PROJECT

Use the selection table on p2 to select a MiniMc Ethernet Media Converter for your project. Below are a few helpful questions to help narrow your selection.

**Important Consideration** before you get started: This product line supports Auto Negotiation only.

- **What speed does the copper port on the device you are connecting to have?**
  - 10/100Mbps, 10/100/1000Mbps, 1000Mbps
- **What type of fiber does the application require?**
  - Single Mode: dual strand or single strand? 1310 or 1550nm wavelength?
  - Multi Mode: dual strand or single strand? 850 or 1300nm wavelength?
  - SFP form factor (Small Form Pluggable)
- **Types of Power Options**
  - AC power adapter, with country-specific clips
  - DC power: terminal block, on IE versions only, and power range varies by product
  - Telco power, -48VDC
  - IE-PowerTray/18 slot chassis, AC power, optional purchase
  - AC to DC power, IE form factor, optional purchase
  - USB cable, optional purchase
- **Does the environment require IE rating, Industrial Ethernet?**
  - Industrial Ethernet products provides extended temperature rating for harsh environment installations.
  - Industrial Ethernet also requires the DC terminal block to be used as the power source.
- **What about the hardware mounting options?**
  - Velcro strips are included.
  - DIN Rail mounting is available. (DIN Rail clips, optional purchase)
  - Wall mount bracket is available; wall mount bracket is an optional purchase
- **What diagnostic features are available?**
  - Link Fault Pass Through (LFPT) is a diagnostic feature that indicates a fault condition.
  - Available on select models; check product specifications.
- **Is there Power over Ethernet capability?**
  - The IE-MiniMc 10/100Mbps can behave as a PD (Power Draw) device if connected to a power injector.
- **Once you have a product selected, you should ask just a few more questions:**
  - Do you have all the accessories needed to make the needed connections?
  - Cables, Power Supplies, Hardware Brackets, DIN Rail Clips?
  - When do you need product or samples for proof of concept? When do you plan to go to full production?



Featuring a compact form factor Ethernet Media Converter to install in challenging space constrictions, the MiniMc family of Media Converters offers ease of installation, different hardware mounting options, a variety of power sources and reliable throughput speeds for 10/100, 10/100/1000 and gigabit speeds. Some models are available in Industrial Ethernet, for installations in harsh environments.

### WHAT IS AUTO-NEGOTIATION?

Auto Negotiation (AN) is an IEEE 802.3 standard for how a device advertises speed and duplex on an Ethernet copper port. AN was ratified in 1998, and most network equipment today offers it. It allows network equipment to advertise speed and duplex and agree to the highest common denominator.

Auto Negotiation makes it easy for the network administrator to leave all devices in the AN mode for speed of installation. Before AN was established and ratified, the FORCE mode was the preferred way to configure networks. The MiniMc series of products supports AN; there is no option for a FORCE mode.

### PRODUCT ASSISTANCE

If you need product selection assistance, contact Advantech B+B SmartWorx technical support.

# ETHERNET COPPER TO FIBER CONVERTER

| PRODUCT SELECTION GUIDE | (continued)



Unmanaged Media Converters – MiniMc Family Series								
Series:	MiniMc	MiniMc LFPT versions	IE-MiniMc	Giga-MiniMc	Giga-MiniMc - LFPT versions	IE-Giga-MiniMc	IE-Giga-MiniMc - LFPT versions	MiniMc-Gigabit
DSW for LFPT	Select models	Select models	-	-	-	-	✓	-
LFPT Capability	Select models	✓	-	-	All models, permanently enabled	-	All models, DSW	-
MTU	1916	1916	1916	1536	10240	10240	10240	10240
PD Device	-	-	✓	-	-	-	-	-
DC Power	-	-	✓	-	-	✓	✓	-
AC Power	✓	✓	✓	✓	✓	✓	✓	✓
DIN Clip	✓	✓	✓	✓	✓	✓	✓	-
IE-5V Power	✓	✓	✓	✓	✓	✓	✓	✓
Power Options *	AC power supply (included)	AC power supply (included)	AC power supply (included)	AC power supply (included)	AC power supply (included)	AC power supply (included)	AC power supply (included)	AC power supply (included)
Wallmount Bracket	✓	✓	✓	✓	✓	✓	✓	✓
Wide Temperature	-	-	✓	-	-	✓	✓	-
SFP Capability	Select models	Select models	-	-	Select models	-	Select models	-
USB Cable, optional	Single	Single	Single	Dual	Dual	Dual	Dual	Dual
<b>MODEL/SKU# **</b>								
	855-10619	856-11619	855-19720	856-10728	856-11700	856-18825	856-18929	855-10730
	855-10620	856-11620	855-19721	856-10729	856-11701	856-18826	856-18930	855-10731
	855-10621	856-11621	855-19722	856-10730	856-11702	856-18827	856-18931	855-10732
	855-10622	856-11622	855-19723	856-10731	856-11703	856-18828		855-10733
	855-10623	856-11623	855-19724	856-10732	856-11704	856-18830		855-10734
	855-10624	856-11624	855-19725	856-10733	856-11705	856-18831		855-10735
	855-10625	856-11625	855-19726	856-10734	856-11706	856-18832		855-10736
	855-10626	856-11626	855-19727	856-10735	856-11710	856-18833		855-10737
	855-10627	856-11627	855-19730	856-10736	856-11711	856-18834		855-10738
	855-10641	856-11641	855-19750	856-10737	856-11712	856-18835		855-10739
	855-10650	856-11650	855-19751	856-10738	856-11713	856-18836		855-10742
	855-10651	856-11651	855-19752	856-10739	856-11714	856-18837		855-10743
	855-10652	856-11652	855-19753	856-10742	856-11742	856-18838		855-10744
	855-10653	856-11653	855-19754	856-10743	856-11743	856-18839		855-10745
	855-10654	856-11654	855-19755	856-10744	856-11744	856-18840		
	855-10655	856-11655	855-19756	856-10745	856-11745	856-18841		
	855-10656	856-11656	855-19757	856-10747		856-18842		
	855-10657	856-11657						

\* All models are available without a power supply. Use 854- prefix. Or, call for details.

\*\*The model# defines the fiber type and connector type. Check website for more details.

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NEMA TS 2 (select models). Contact Advantech B+B.