

# SELECTING PSE AND PD ETHERNET MEDIA CONVERTERS FOR YOUR NEXT PROJECT

Use the selection table on page 2 to quickly narrow your search for a PSE or PD Ethernet Media Converter that best fits your next project. Below are a few helpful questions to ask at the beginning of the project:

- **Does the application require PSE or PD functionality?**
  - PoE 15.4W (802.3af) PoE+ (802.3at) 30W (backwards compatible to PoE power)
  - Does the application require a PD device?
- **Does the application require basic Media Converters?**
  - Choose Unmanaged for simple plug and play connectivity.
  - Management available on some PD devices.
- **What Data Speeds are required?**
  - 10/100Mbps
  - 10/100/1000Mbps (GB)
- **Is there a need for Fiber Ports for Distance or Noise Immunity purposes?**
  - First, choose between Multi-mode or Single-mode fiber types.
  - Then choose your fiber connectors; common ones are SC, ST or SFP form factor.
  - SFP's are not exclusive to fiber but do offer a lot of flexibility.
- **Is there a need for a Serial Interface?**
  - Does the application require a simple, low-speed device with a serial interface?
- **Review your Mounting, Temperature or Power requirements.**
  - Does the application require compact or a particular mounting form factor?
  - What are the temperature requirements for the application?
- **Once you have a media converter selected, you should ask just a few more questions.**
  - Do you have all the accessories needed to make all the connections? – Patch Cords, Power Supplies, DIN rail or wallmount brackets?
  - When do you need product samples for proof of concept and full production?

## PRODUCT ASSISTANCE

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



## PoE+ (IEEE802.3at) Unmanaged PoE+ Media Converters & Extenders

“PoE” stands for Power-over-Ethernet, which is just what it says. Power is transmitted over the Ethernet cable along with the data lines. Each PoE switch has a set of ports that is classified as Power Source Equipment (“PSE”). These ports can be used to power PoE-compliant powered devices (“PD”), eliminating the need for a separate power line to be run to each end device. VOIP phones, PTZ cameras and other applications benefit from PSE products, reducing the cost of the installation.

PD devices are also available, dependent on the application requirements. PD devices draw the power from PSE equipment, while supporting the necessary media conversion.

Designated copper ports on PoE and PD devices do not impede the throughput of traffic. The copper ports can function as standard Ethernet connections as well.

# PSE & PD MEDIA CONVERTERS

## | PRODUCT SELECTION GUIDE |



Power Source Equipment & Powered Device Media Converters										
Series / Model Number:	PoE McBasic w/ LFPT	PoE Giga- McBasic w/ LFPT	PoE Giga MiniMc w/ LFPT	PoE+ Giga MiniMc w/ LFPT	PoE+ GigaMcBasic w/ LFPT	PESIA	IE-MiniMc	IE-MiniMc w/ LFPT	IE-Mini- FiberLinx-II w/ LFPT	
<b>SPEED</b>	<b>Power Source Equipment "PSE"</b>					<b>Powered Devices "PD"</b>				
100 Base	✓	-	-	-	-	-	-	-	-	
10/100 Base	-	-	-	-	-	✓	✓	✓	-	
10/100/1000 Base	-	✓	✓	✓	✓	-	-	-	-	
<b>PORTS</b>										
Total Port Count	3	3	3	3	3	2	2	2	2	
Copper Ports	2	2	2	2	2	1	?	1	1	
Fiber Option	1x9 (1)	1x9 (1), SFP	1x9 (1), SFP	1x9 (1), SFP	1x9 (1), SFP	-	1x9 (1)	1x9 (1)	1x9 (1)	
PoE Port Capability	1	1	1	2	2	1	1	1	1	
<b>FEATURES</b>										
LFPT	✓	✓	✓	✓	✓	-	-	✓	✓	
MTU	10240	10240	10240	10240	10240	1518	1916	1916	1916	
Management	-	-	-	-	-	-	-	-	✓	
<b>SPECIFICATIONS</b>										
Temperature	0 to 50°C	0 to 50°C	0 to 50°C (with AC adapter)	0 to 50°C (with AC adapter)	0 to 50°C	0 to 60°C	-10 to 50°C (with AC adapter)	0 to 50°C (with AC adapter)	0 to 50°C (with AC adapter)	
Wide Temperature Option	-	-	0 to 70°C	0 to 70°C	-	-	-40 to 85°C (without AC adapter)	-40 to 85°C	-25 to 75°C	
Power	Internal AC	Internal AC	External AC	External AC	Internal AC	-	External AC, TB	External AC, TB	External AC, TB	
DIN/Panel/Inline Mount	-	-	DIN Rail/Panel	DIN Rail/Panel	-	-	DIN Rail/Panel	DIN Rail/Panel	DIN Rail/Panel	
<b>MODEL#/SKU#</b>										
	852-11712	852-11811	857-11811	857-11911	852-11911	PESIA	855-19720	855-19821	856-19617	
	852-11713	852-11812	857-11812	857-11912	852-11912		855-19721	855-19822	856-19718	
	852-11714	852-11813	857-11813	857-11914	852-11913		855-19722	855-19823	856-19723	
	852-11715	852-11814	857-11814	857-11915	852-11914		855-19723	855-19824	856-19724	
	852-11716	852-11820	857-11815		852-11915		855-19724	855-19830	856-19725	
	852-11717		857-11816		852-11916		855-19725	855-19831	856-19726	
	852-11718		857-11817		852-11917		855-19730		856-19727	
	852-11719		857-11820		852-11920		855-19750		856-19732	
	852-11720		857-11821				855-19751		856-19735	
			857-11822				855-19752		856-19741	
			857-11823				855-19753		856-19752	
			857-11824				855-19754		856-19753	
			857-11825				855-19755		856-19754	
									856-19755	
									856-19757	
									856-19762	

NOTE: PoE supports up to 15.4W; PoE+ supports up to 25.5W.