

SELECTING AN ETHERNET TO SERIAL CONVERTER FOR YOUR NEXT PROJECT

Use the selection tables on p2 to quickly narrow your search for an Ethernet to Serial Converter that best suits your next project. Below are a few helpful questions to help narrow the selection:

- **How many serial ports do you need?**
 - Advantech offers 1 and 2 port solutions
- **What is the serial data type of the device you are connecting too?**
 - RS-232
 - RS-422/RS-485 (2-wire or 4-wire connections)
- **Does the application need to support the Modbus protocol?**
- **What about the Ethernet connection?**
 - Models feature one Ethernet port.
 - What about a Wi-Fi interface? This is a suitable choice for applications that require mobility.
- **What about the physical serial connector – is a DB9 or a Terminal Block preferred?**
 - Most preferences are a DB9 for RS-232 connections and a Terminal Block for RS-422/485 connections.
- **What mounting option best suites your application?**
 - DIN rail mountable? (good for in-cabinet designs)
 - Panel mountable? (use on a desktop or flat panel mounting)
- **What environmental or safety aspects should be considered?**
 - Are there extreme temperature concerns based on where the Ethernet to Serial converter will be located?
 - Is UL Listed, UL Class I/Division 2 required for the application?
 - Are shock, vibration or drop testing specifications required for the application?
- **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, Cabinets, Surge Protection, Ethernet Switches or other Ethernet Infrastructure devices?
 - When do you need product or samples for proof of concept? When do you plan to go to full production?







Assistance

If you need additional product selection help, contact Advantech Technical Support.



ETHERNET TO SERIAL CONVERSION

PRODUCT SELECTION GUIDE (continued)

Virtual COM Software					Modbus Protocol Support	
						
Product Series:	BB-VESP211x	BB-VESR90x	BB-ABDN-SE-DP551	BB-ABDN-SE-IN54x0	BB-MESP211T	BB-MESR90x
ETHERNET						
Copper Ports			-			
WiFi Ports	-	-			-	-
SERIAL						
Port Count		1, 2		1, 2		1, 2
DB9	232, 232/422/485	232/422/485	232/422/485	232/422/485	-	232/422/485
Terminal Block	422/485	232/422/485	-	-	232/422/485	232/422/485
SPECIFICATIONS						
Temperature	0 to +80 °C (w/ PS) -40 to +80 °C (no PS)	-40 to +80 °C	-20 to +85 °C	-40 to +85 °C	0 to +80 °C (w/ PS) -40 to +80 °C (no PS)	-40 to +80 °C
Power DC	10 to 30Vdc	10 to 48Vdc	5Vdc	5 to 36Vdc	10 to 30Vdc	10 to 48Vdc
Power Supply Included	Yes, universal	-	-	-	Yes, universal	-
Dual Power Inputs	-	TB, External	-	TB & Barrel	-	-
Mounting	Panel, (DIN option)	DIN (Panel option)	Desktop	Panel	Panel (DIN option)	DIN (Panel option)
UL, UL Class 1/Division 2	-	UL Listed, UL C1/D2	-	-	UL Listed	UL Listed, UL C1/D2
NEMA TS2	-	BB-VESR901	-	-	-	BB-MESR901
FCC, CE	Yes	Yes	Yes	Yes	Yes	Yes
MODEL/ORDER #						
	BB-VESP211	BB-VESR901	BB-ABDN-SE-DP551	BB-ABDN-SE-IN5410	BB-MESP211T	BB-MESR901
	BB-VESP211-232	BB-VESR902D		BB-ABDN-SE-IN5420		BB-MESR902T
	BB-VESP211-485					