



BLUEBERRY
INDUSTRIAL
ETHERNET

  BU-103 SERIES

Blueberry unmanaged Industrial Ethernet Media Converter, BU-103F1

Features

- 2 x 10/100BASE-TX (RJ-45)
- 1 x 100BASE-MM/SM-SC port
- Operating temperature: [-40°C..70°C]
- 9-30VDC power input
- IP30 housing
- Mounting: DIN-Rail



The BU-103F1 media converter allows you to extend Ethernet communication via optical fiber. It is a compact unit designed for industrial environments and offers a wide temperature range [-40°C..70°C]. The media converter is available with the following fiber transceivers:

100BASE-FX-MM, 100Mbps, multi-mode (1310nm) with SC connector – 2km

100BASE-FX-SM, 100Mbps, single-mode (1310nm) with SC connector – 30km

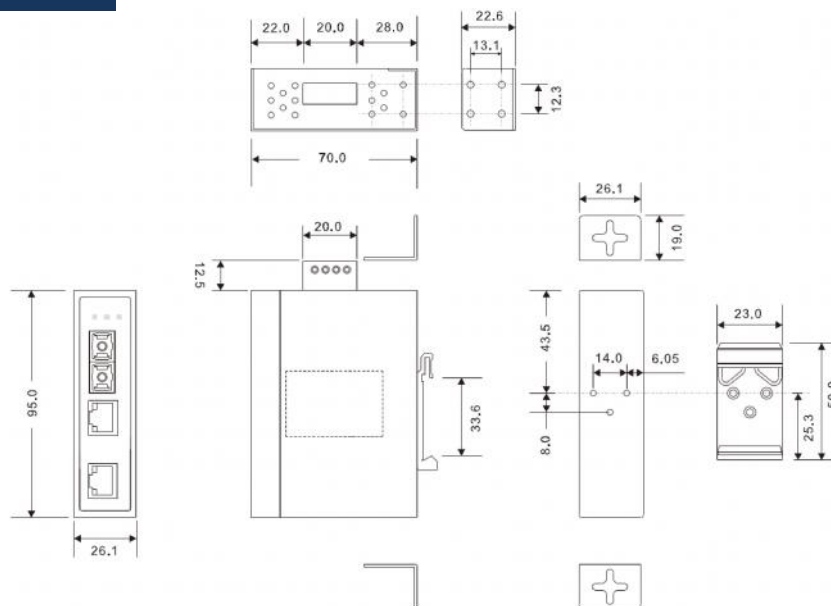
Other SFPs including BIDI fiber transceivers for other fiber lengths are available on request.

The unit further features redundant DC power inputs, DIN-Rail Mounting and comes in an IP30 Aluminum case.





Dimensions



Specifications

Ethernet ports	
10/100BASE-TX port in RJ45 Auto MDI/MDIX	2
Fiber ports	
100BASE-FX port	1
Specifications	100BASE-FX-MM with SC connector (1310nm, 2km), or 100BASE-FX-SMM with SC connector (1310nm, 30km)
Technology	
Ethernet standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3u for 100Base-FX
Packet processing	Store-and-forward
LEDs	
Power	Green : Power LED, Indicate power input
10/100BASE-TX RJ45 port	Green for port Link/Act. Amber for Duplex
Power	
Redundant Power Input	DC inputs. 9-30VDC
Power Consumption (Typical)	4.5W
Overload Current Protection	Yes
Reverse Polarity Protection	Yes





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Physical characteristics	
Enclosure	IP30, Aluminum case
Dimension (W x D x H)	65.5(W) x 23.75(D) x 102.2(H) mm (2.58x0.94x4.02 inch.)
Weight (g)	300 g
Installation	DIN rail mounting
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 70°C (-40 to 158°F)
Operating Humidity	5% to 95% Non-condensing
Approvals	
EMI	FCC Part 15, CISPR (EN55022) class A
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Shock	IEC60068-2-27
Free fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950
Warranty	5 years

Ordering information

Product	
BU-103F1-MM	Unmanaged industrial Media converter with 2 x 10/100BASE-TX (RJ-45) + 1x100BASE-FX-MM-2km (SC), op. temp range: [-40 to 70°]
BU-103F1-SM	Unmanaged industrial Media converter with 2 x 10/100BASE-TX (RJ-45) + 1x100BASE-FX-SM-30km (SC), op. temp range: [-40 to 70°]





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