

Blueberry 1 port unmanaged industrial Media Converter, BU-102F1

Features

- 1 x 10/100BASE-TX (RJ-45)
- 1 x 100BASE SFP port
- Wide operating temperature: [-40°C..70°C]
- Dual redundant DC power input
- Supports LFP (Link Fault Pass through)
- Dip switch settings for speed/duplex/LFP
- IP30 housing
- Mounting: DIN-Rail



The Blueberry BU-102F1 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]. Speed and duplex can easily be configured via DIP switches, if needed. The unit has 1 x 10/100BASE-TX (RJ-45) and 1 x 100BASE SFP cage which can be equipped with different pluggable fiber transceivers:

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

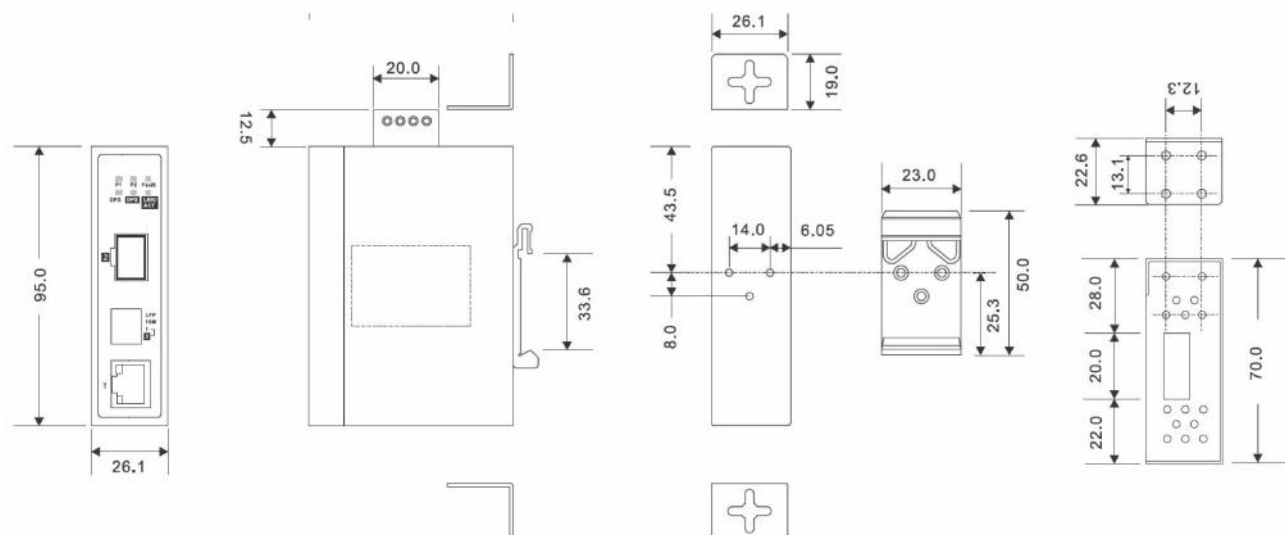
100BASE-FX-SM, 100Mbps, single-mode (1310nm) LC connector – 30km

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

The unit further features dual 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	1
Fiber ports	
100BASE-FX SFP port	1
Specifications	The fiber transceiver is exchangeable. Both single mode and multi mode transceivers can be used.
Technology	
Ethernet standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3u for 100Base-FX IEEE 802.3x for Flow control
Packet processing	Store-and-forward
LEDs	
Power	Green : Power LED x 2, Indicate power input
10/100BASE-TX RJ45 port	Green for port Link/Act. Amber for Duplex/Collision
100BASE-FX fiber port	Green for port Link/Act. Green for Duplex/Collision
Link Fault Pass through	Amber: Indicate LFP failure




BU-102F1 SERIES

Settings	
DIP switch 1	LFP mode selection : (ON) disable / (OFF) enable
DIP switch 2	Ethernet speed selection : (ON)10Mbps / (OFF) 100Mbps
DIP switch 3	Ethernet full/half duplex selection : (ON) Half-duplex / (OFF) Full-Duplex
DIP switch 4	Fiber full/half duplex selection : (ON) Half-Duplex / (OFF) Full-Duplex
Power	
Redundant Power Input	Dual DC inputs. 12-48VDC on 4-pin terminal block
Power Consumption (Typical)	2.2W
Overload Current Protection	Yes
Reverse Polarity Protection	Yes
Physical characteristics	
Enclosure	IP30, Aluminum case
Dimension (W x D x H)	26.1 (W) x 70 (D) x 95 (H)mm (1.03 x 2.76 x 3.74 inch)
Weight (g)	213 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





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INDUSTRIAL
ETHERNET

  **BU-102F1** SERIES

Ordering information

Product	
BU-102F1-MM	Unmanaged industrial Media converter with 1 x 10/100BASE-TX (RJ-45) + 1xSFP + 1x100BASE-FX-MM-2km (LC)
BU-102F1-SM	Unmanaged industrial Media converter with 1 x 10/100BASE-TX (RJ-45) + 1xSFP + 1x100BASE-FX-SM-30km(LC)

