Protocol-Independent, Fiber Mode Conversion via SFP Modules

IE-ModeConverter

PRODUCT FEATURES

- Interchangeable SFP modules allow for multiple fiber mode/type conversion options (single-mode, multi-mode, long haul, short haul, etc.)
- Extended operating temperatures
- Multiple mounting options (Desktop, DIN Rail, IE-PowerTray/18-AC [for high-density installations])
- Compact size conserves space
- AC or DC powering options
- Supports a full range of fiber SFP Modules in various transmission speeds, from 10 Mbps up to 2.4 Gbps*
- Wallmount Bracket

Mode converters allow network operators to incorporate multiple fiber types within a network. The IE-ModeConverter provides the ability to accomplish this by working with existing equipment and thus, eliminating replacement costs. With the flexibility to convert fiber between single-mode, multi-mode, single-strand and various wavelengths, one can easily extend network range to reach more remote locations. Additionally, since the IE-ModeConverter is an Industrial Equipment device (IE), the unit operates in environments that demand extended operating temperatures.

The IE-ModeConverter uses SFP modules to provide greater fiber flexibility in the network environment. The hot-swappable nature of the SFPs and the numerous fiber modes and types available allow for easy configuration and future upgrading as network demands evolve.

The SFP modules must be MSA compliant and support the same speed range. The IE-ModeConverter operates as a mode converter only and not as a rate or media converter.

ORDERING INFORMATION

MODEL NUMBER	DESCRIPTION	FIBER PORTS	DISTANCE
IE-ModeConverter SFP/SFP with AC Adapter **			
855-19619	SFP	2	Various
IE-ModeConverter SFP/SFP without AC Adapter **			
854-19619	SFP	2	Various

* Certified at 1.25 Gbps, 2.4 Gbps is achievable

** SFP fibers sold separately

ACCESSORIES

806-39105 - DIN Rail Clip

806-39638 - Double-USB Power Cable, 36"/.9m

806-39650 - 12"/.3m Barrel-Connector Power Cable

850-13086 - IE-PowerTray/18-AC (-20°C to +70°C), 18-slot AC powered chassis

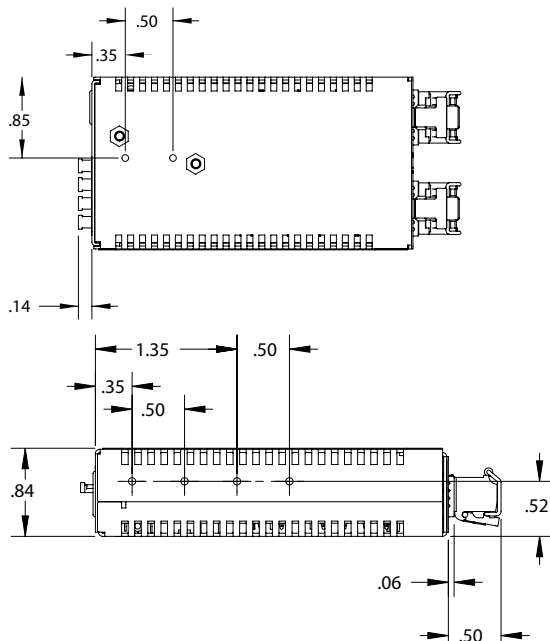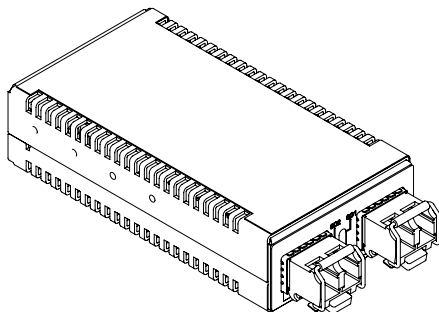895-39229 - Wall Mount Bracket

SPECIFICATIONS

TECHNICAL
Two SFP ports
Protocol-independent operation
Converts between dissimilar fiber modes and wavelengths
Includes diagnostic LEDs
Hot-swappable architecture
Small Form Factor
7 VDC to 50 VDC terminal block powering option
Supports an external 5 VDC power module (not extended temperature)
Extended temperature range from -10° to +50° C
Compatible with IMC Networks SFPs and all standard MSA compliant SFP transceivers
Supports DIN Rail mounting
DC terminal block has dual inputs and supports cascading power
Standard Compliance
SFP-MSA SFP standard (September 14, 2000)
SFF-8472 DDMI standard (Revision 1.0)

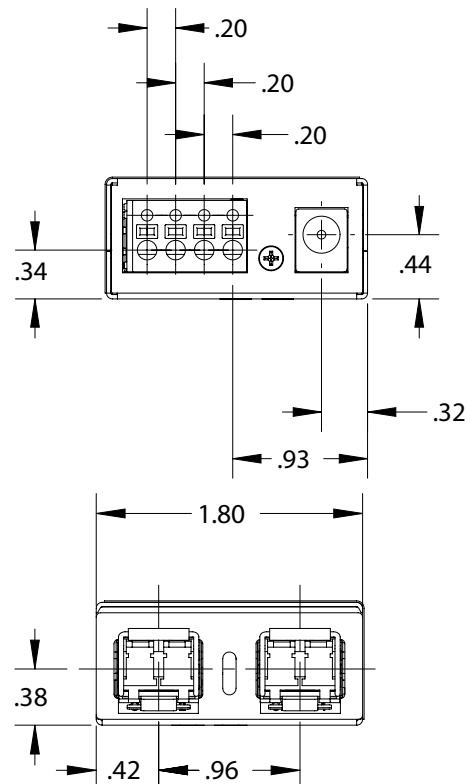| MECHANICAL	
Dimensions	0.83"H x 1.80"W x 3.35"D (2.11 x 4.57 x 8.51 cm)
Shipping Weight	0.25 lbs (0.11 kg)
AC WALL ADAPTER	
100 to240 ±10% VAC input, 5 VDC output, 2A max.	
DC INPUT VOLTAGE	
+7 to +50 VDC @ 2.5 Watts (chassis grounded to negative terminal)	
POWER	
Maximum 3.3 Watts of combined power to both SFPs	
ENVIRONMENTAL	
Operating Temperature:	-13°F to +185°F (-25°C to +85°C) DC configuration -4°F to +158°F (-20°C to +70°C) DIN Railmount power supply +14°F to +122°F (-10°C to +50°C) with AC wall adapter
Storage Temperature:	-49°F to +185°F (-45°C to +85°C)
Operating Humidity	5% to 95% (non-condensing), 0 – 10,000 ft. altitude
REGULATORY APPROVALS	
FCC Class A	
UL/cUL, CSA, CE	

MECHANICAL DIAGRAM

(dimensions in inches)

B&B ELECTRONICS

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