Fiber Mode Conversion SFP/SFP Modules
IE-ModeConverter

PRODUCT FEATURES

- Flexible, interchangeable SFP modules allow for SM and MM fiber
- Extended operating temperature
- Multiple mounting options - Desktop, DIN Rail, Wallmount (with bracket) 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 with transmission speeds from 100 Mbps up to 2.4 Gbps*

* Certified at 1.25 Gbps, 2.4 Gbps is achievable

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 is an unmanaged product that 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

** SFP fibers sold separately - available at *www.advantech-bb.com*

ACCESSORIES

806-39105 - DIN Rail Clip

806-39638 - Double-USB Power Cable, 36 in. (0.9 m)

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

8806-39720 - AC Power Adapter

B+B SmartWorx

Powered by **ADVANTECH**

orders@advantech-bb.com
support@advantech-bb.com

Corporate Headquarters: 707 Dayton Road, PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104
European Office: Westlink Commercial Park, Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445

Fiber Mode Conversion
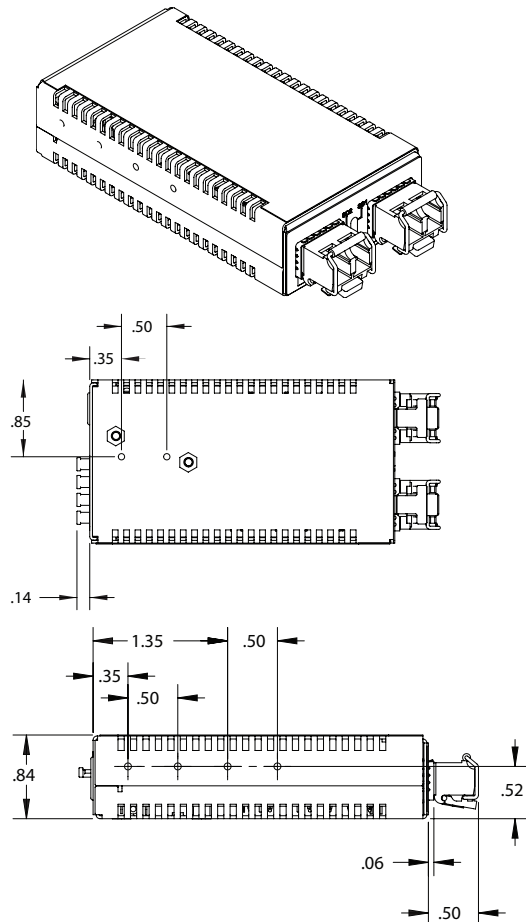# SFP/SFP Modules
IE-ModeConverter

SPECIFICATIONS

TECHNICAL
Two SFP ports
Protocol-independent operation
Converts between dissimilar fiber modes and wavelengths
Includes diagnostic LEDs
Hot-swappable architecture
Small Form Factor
Supports an external 5 VDC power adapter (not extended temperature)
Extended temperature range from -10° to +50° C
Supports all MSA-compliant SFPs (see speeds defined on pg.1 of this document)
Supports DIN rail mounting; rack mount bracket option
7 to 50 V DC terminal block has dual inputs and supports cascading power
Standard Compliance
SFP-MSA SFP Standard (September 14, 2000)

MECHANICAL	
Dimensions	0.83H x 1.80W x 3.35D inches (21.1H x 45.7W x 85.1D mm)
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
	+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, CE	
UL (Environmental)	"Equipment intended for installation in Restricted Access Location." Applies when this device is installed in an area where the ambient temperature is above 40°C.
Meantime Between Failure (MTBF)	742,132 hours

MECHANICAL DIAGRAM
(dimensions in inches)

B+B SmartWorx
Powered by ADVANTECH

orders@advantech-bb.com
support@advantech-bb.com

Corporate Headquarters: 707 Dayton Road, PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104
European Office: Westlink Commercial Park, Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445