Modular Protocol-Independent, 10 Gbps SFP+ Fiber Mode Converters

iMcV-10G Converter SFP+ series

PRODUCT FEATURES

- Interchangeable SFP+ modules allow for multiple fiber mode/type conversion options (single-mode, multi-mode)
- DDMI enabled SFP+s are supported through SNMP when installed in a compatible managed chassis
- Supports 3R's signal regeneration - Reamplify, Reshape, Retime
- Supports a wide range of SFP+ modules with transmission speeds from 9.9 Gbps to 11.3 Gbps
- Modules are hot-swappable; no need to power-down chassis when upgrading or troubleshooting a single module
- User selectable FX LinkLoss enables the operator to identify a cable fault failure when the unit is not installed in a managed chassis
- Supports Config Control, a feature that retains the latest configuration of a module regardless of how the initial configuration was setup, whether by DIP switch or SNMP Management Module
- Supports Internal Test Head functionality

The iMcV-10G-Converter SFP+ is a single-wide SNMP manageable module that allows network operators to convert an array of fiber types within a network. It installs in the modular, SNMP-manageable iMediaChassis series and in the unmanaged MediaChassis series (available from Advantech B+B SmartWorx).

The iMcV-10G-Converter SFP+ uses 10 Gbps SFP+ modules that are capable of moving large amounts of data over long distances for applications such as ISPs, data storage, fiber channel, and others. The hot-swappable nature of SFP+ and the numerous 10G protocols and types that are available allow for easy configuration and future upgrading as network demands evolve.

The iMcV-10G-Converter SFP+ is protocol-independent with dual SFP+ ports that can provide a single conversion between single-mode and multi-mode fiber, single-mode to single-mode fiber, or single-strand single-mode fiber. The iMcV-10G-Converter SFP+ module supports a variety of user-configurable features such as Loss Carry Forward (LCF) and Internal Test Head feature.

Easily configure and manage converters with the GUI-based iView². As an SNMP management application, iView² gives network managers the ability to monitor and control B+B SmartWorx products. iView² runs as a Web Server version; the software is free and available for download from the website.

ORDERING INFORMATION

MODEL NUMBER	FIBER	FIBER PORTS	RANGE
iMcV-10G-Converter SFP+/SFP+*			
860-12102	SFP+	2	Various

ORDERING INFORMATION

MODEL NUMBER	FIBER	RANGE	FIBER BUDGET (DB)
IE-SFP+ Modules: 10 Gbps Ethernet (OC-192) with DDMI			
808-38600	IE-SFP+ SR/10G-ED, MM850, LC	33 m	2.8 dB
808-38601	IE-SFP+ LR/10G-ED, SM1310, LC	10 km	8.4 dB

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

iView: Webserver Version
Free Download

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iMcV-10G Converter SFP+ series

SPECIFICATIONS

TECHNICAL
2 x SFP+ ports
Supports an array of 10G protocols
Converts between dissimilar fiber modes and wavelengths
Includes diagnostic LEDs
Hot-swappable architecture
Modular form factor
Compatible with B+B SmartWorx' SFP+ and all standard SFP+ transceivers
Does not support copper SFPs

STANDARD COMPLIANCE
Meets MSA Standards
MTU = 10000 bytes

MECHANICAL	
Dimensions	10.74 x 2.0 x 7.05 cm (4.19H x 0.78W x 2.75D in)
Shipping Weight	0.11 kg (0.25 lbs)
ENVIRONMENTAL	
Operating Temperature:	-20 to +70 °C (-4 to +158 °F)
Storage Temperature:	-40 to +85 °C (-40 to +185 °F)
Operating Humidity	5 to 95% (non-condensing), 0 to 10,000 ft. altitude
POWER CONSUMPTION	
637mA @ +70° C (typical @ 5V)	
REGULATORY APPROVALS	
FCC Class A	
UL/cUL, CE	

MECHANICAL DIAGRAM

units = inches

B+B SMARTWORX
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