AccessConverter
Multi-Port, 10/100 Mbps Switching Standalone Media Converter

Terminate fiber and connect multiple Ethernet devices— PCs, webcams, printers— at a remote location with a single device.

MEDIA CONVERSION

Features and Benefits

Most cost-effective fiber converter available today
- Low cost, high flexibility— same small unit performs media conversion and switching functions
- Made in America with a 6-year comprehensive warranty (including power adapter)

Plug-and-Play operation
- User-friendly 10/100 Auto Negotiation technology
- AutoCross feature for twisted pair connection

Perfect for a variety of applications
- Device includes high-reliability power cube with country-specific clip
- Available for multi-mode or single-mode fiber and single-strand fiber
- Uplink available on rear or front of unit
- Install inside network interface device

Space saving alternative
- Device has small, rugged enclosure with compact external power supply
- Table-top or wall-mount installation

Multi-port, copper to fiber, switching media converter features:
- Three 10/100 twisted pair downlink ports
- One 100 Mbps fiber or 10/100 twisted pair uplink port
- A universal, external switching AC power cube with a country-specific power clip

Terminating a fiber run while using various local, copper-based devices such as PCs, printers, VoIP, etc. is essential for the success of Fiber-to-the Business, Curb and other FTTx projects. Remote locations have similar configuration demands. Connecting the multiple copper devices to the fiber, however, typically requires the use of both a media converter and a switch— two pieces of equipment to purchase and two pieces of equipment to monitor and maintain. IMC Networks streamlines FTTx projects as well as the connection of remote locations with its AccessConverter, a multi-port, switching media converter.
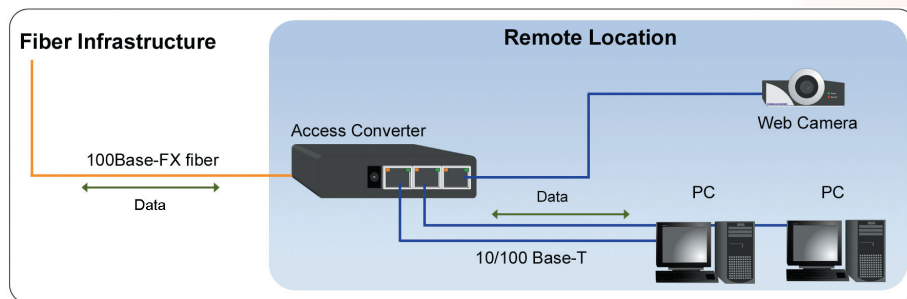
Best of all, one compact AccessConverter module reduces the amount of required equipment while providing all the features of a switch (store and forward switching mechanics, MAC address learning, protection against broadcast storms, flow control, etc.) and performing the electrical-to-optical conversion. In addition, the unit's small size and wall-mount bracket (included) allow you to install AccessConverter virtually anywhere, including inside a network interface device (NID).

Requiring no configuration, the AccessConverter offers plug-and-play operation:

- Each copper port auto-senses the connected device's speed and duplex mode (10 Mbps or 100 Mbps and HDX or FDX) and includes AutoCross, a feature which automatically selects between a crossover workstation (MDIX) or pass-through (MDI) connection depending on the connected device
- The fiber port always operates at 100 Mbps FDX, and supports distances up to 80 km

Depending on configuration requirements, the AccessConverter can be ordered with the uplink port on the back or the front of the unit. The AccessConverter series also includes a single-strand fiber version which can effectively double the capacity of fiber.

Application Example

Fiber Infrastructure — Remote Location — Access Converter — Web Camera — 100Base-FX fiber — Data — Data — PC — PC — 10/100 Base-T

Technical Specifications

Features

- Auto Negotiation of speed and duplex (HDX/FDX) on copper ports
- Layer 2 packet switching, store and forward operation
- Forwarding rate: 14,881pps for 10 Mbps; 148,810pps for 100 Mbps
- 1024 MAC address learning
- MTU: Supports over-sized packets up to 1536 bytes
- Full wire speed on all ports
- Broadcast storm protection
- AutoCross for MDI/MDIX
- LinkLoss and FiberAlert
- Auto Negotiation
- Diagnostic LEDs
- Supports Half- and Full-Duplex operation

Supported Fiber Types

- 50/125μm or 62.5/125μm multi-mode fiber
- 9/125μm single-mode fiber
- Single-strand fiber
- All copper version also available (TX/3 + TX)

Physical

- Connectors: RJ-45, and ST, SC or MT-RJ
- Uplink available on rear or front of unit
- Device includes high-reliability power cube with country-specific clip
- Table-top or wall-mount installation

Standards Compliance

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX
- IEEE 802.3u 100Base-FX
- IEEE 802.3x Flow Control

Regulatory Approvals:

- FCC Class B
- UL/cUL, CSA, CE

Dimensions:

0.92"H x 3.50"W x 4.38"D (2.34 x 8.89 x 11.13 cm)

Shipping Weight:

1.1 lbs. (0.50 kg)

Power Rating

5V DC, 1A

Operating Temperature:

+32° to +122° F (0° to +50° C);
5% to 95% (non-condensing),
0 to 10,000 ft. altitude

Storage Temperature:

-13° to +158°F (-25° to +70° C);
5% to 95% (non-condensing)

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. For complete power budgets and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

PART NUMBER	DESCRIPTION	DISTANCE
AccessConverter TX + Uplink		
852-10140	AccessConverter, TX + TX	100 m
852-10150	AccessConverter, TX + FX-MM850-ST	2 km
852-10151	AccessConverter, TX + FX-MM850-SC	2 km
852-10141	AccessConverter, TX + FX-MM1300-ST	5 km
852-10142	AccessConverter, TX + FX-MM1300-SC	5 km
852-10141-MT	AccessConverter, TX + FX-MM1300-MT	5 km
852-10143	AccessConverter, TX + FX-SM1310/PLUS-ST	40 km
852-10144	AccessConverter, TX + FX-SM1310/PLUS-SC	40 km
852-10145	AccessConverter, TX + FX-SM1310/LONG-ST	80 km
852-10146	AccessConverter, TX + FX-SM1310/LONG-SC	80 km
852-10147	AccessConverter, TX + FX-SM1550/LONG-SC	80 km
AccessConverter TX + Uplink Single-Strand Fiber *		
852-10153	AccessConverter, TX + SSFX-SM1310-SC (1550rcv)	20 km
852-10154	AccessConverter, TX + SSFX-SM1550-SC (1310rcv)	20 km
852-10155	AccessConverter, TX + SSFX-SM1310/PLUS-SC (1550rcv)	40 km
852-10156	AccessConverter, TX + SSFX-SM1550/PLUS-SC (1310rcv)	40 km
852-10157	AccessConverter, TX +SSFX-SM1310/LONG-SC (1550rcv)	60 km
852-10158	AccessConverter, TX + SSFX-SM1550/LONG-SC (1310rcv)	60 km

* These products have single-strand fiber technology. Deploy in pairs, or connect to another compatible IMC Networks single-strand fiber product. Go to www.imcnetworks.com/products/SSFX.cfm for more information

FCS FREE Fiber Consulting Services · RoHS · Made in USA · 6-YEAR Comprehensive Warranty · ISO 9001:2008 REGISTERED

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