

When simple, individual, copper-to-fiber or copper-to-coax conversions are required, along with advanced troubleshooting features, installing McBasic Series standalone media converters is the perfect, cost-effective solution.

Features and Benefits

Perfect for a variety of applications

- Has a small, rugged design offering many advanced features

Meets a multitude of installation requirements

- Available in 10 Mbps, 100 Mbps, 1000 Mbps, and autosensing 10/100 versions
- Available for multi-mode or single-mode fiber
- Also available for single-strand fiber
- Available with ST, SC

Converts 10 Mbps twisted pair to fiber today, and 100 Mbps twisted pair to fiber tomorrow

- McBasic 10/100 provides transparent end-to-end 10/100 auto-negotiation for easy upgrade; no user intervention or visits to remote locations required

Eases troubleshooting

- LinkLoss, FiberAlert, Transparency and Link Fault Detection features, along with LEDs, assist in diagnosing problems on fiber optic networks

McBasic 10 Mbps Converters:

- Convert 10 Mbps twisted pair to 10 Mbps fiber.
- Convert 10 Mbps twisted pair to 10 Mbps thin coax.

McBasic 100 Mbps Converters:

- Convert 100 Mbps twisted pair to 100 Mbps fiber.

McBasic 10/100, Autosensing Dual-Speed Converters:

- Convert 10 Mbps twisted pair to 10 Mbps fiber OR convert 100 Mbps twisted pair to 100 Mbps fiber.

McBasic-Gigabit 1000 Mbps Converters:

- Convert 1000 Mbps twisted pair to 1000 Mbps fiber.

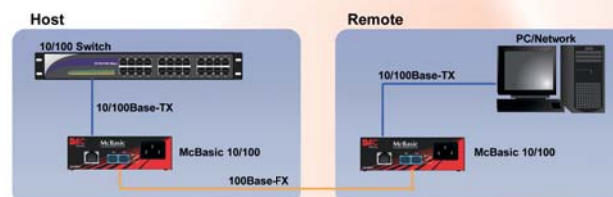


The McBasic's small, table-top design and durability make it perfect for installation anywhere space is limited. Additionally, the McBasic comes with an internal AC power supply. This feature significantly increases reliability over products that use bulky, external AC/DC power transformers. The McBasic series includes:

The McBasic includes troubleshooting features such as LinkLoss, FiberAlert, Transparency and Link Fault Detection that make isolating fiber breaks easier should they occur. The McBasic also features either AutoCross or switch crossover/pass-through switch on twisted pair connections, termination switch on BNC ports, and diagnostic LEDs. Most McBasic units are available for single-strand fiber which can effectively double the capacity of fiber by allowing two individual channels to share one strand of fiber; Full-Duplex data travels on different wavelengths — 1310 nm and 1550 nm, for example.

Autosensing 10/100 Mbps McBasic converters offer significant advantages over regular 10 and 100 Mbps converters. An ideal choice for both enterprise and service provider networks, 10/100 converters save time and money when deployed at the host and remote site. Enterprise networks planning a migration path from 10 Mbps to 100 Mbps often deploy autosensing converters, then upgrade when ready and units will automatically adapt to increased speed. Service providers with 10 or 100 Mbps links to customer premises can sell customers more bandwidth without upgrading the converters at the POP and the customer network edge.

Application Example



Technical Specifications

McBasic TP/BNC 10 Mbps

- IEEE 802.3 10Base-T twisted pair
- IEEE 802.3 10Base-2 coax

McBasic 10 Mbps

- IEEE 802.3 10Base-T twisted pair and 10Base-FL fiber
- Features LinkLoss and Pulsing FiberAlert

McBasic 100 Mbps

- IEEE 802.3u 100Base-TX twisted pair and 100Base-FX or -SX fiber
- Features LinkLoss and FiberAlert
- Features Auto-Negotiation

McBasic 10/100

- IEEE 802.3 10Base-T twisted pair and 10Base-FL fiber
- IEEE 802.3u 100Base-TX twisted pair and 100Base-FX or -SX fiber
- Features Link Fault Detection and Transparency
- Features Auto-Negotiation

McBasic-Gigabit

- IEEE 802.3ab 1000Base-T twisted pair
- IEEE 802.3z 1000Base-LX or SX fiber
- Features FiberAlert

All McBasic Serries

- Include MDI-II/MDI-X Switch
- Includes fixed, internal AC power
- 50/125µm or 62.5/125µm multi-mode fiber
- 9/125µm single-mode fiber
- Includes diagnostic LEDs

McBasic 10, 100 ,10/100 Dimensions

1.64"H x 4.75"W x 4.54"D
(4.2 cm x 12.17 cm x 11.64 cm)

McBasic Gigabit Dimensions:

1.64"H x 4.75"W x 7.3"D
(4.2 cm x 12.17 cm x 18.71 cm)

Connectors:

- RJ-45 and BNC or ST, SC (McBasic Gigabit SC only)
- Supports Half- and Full-Duplex operation

Regulatory Approvals:

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

Operating Temperature:

32° to 104°F (0° to 40°C) All Others
32° to 122°F (0° to 50°C) 100 Mbps McBasic Only

Storage Temperature:

0° to 160°F (-20° to +70°C)

Humidity:

5 – 95% (non-condensing)

Shipping Weight:

McBasic TP/BNC, 10 Mbps,100 Mbps and 10/100 Mbps

1.7 lbs (0.77 kg) 1000 Mbps McBasic-Gigabit Only
1.3 lbs (0.58 kg) All others

Power:

100-240V AC, 50/60Hz, 0.2A McBasic-Gigabit only
100-240V AC, 50/60Hz, 1A All others

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 #	DESCRIPTION	DIST	PART #	DESCRIPTION	DIST	PART #	DESCRIPTION	DIST
McBasic 10 Mbps			McBasic 100 Mbps			McBasic Gigabit 1000 Mbps		
855-10230	TP/FO-MM850-ST	2 km	855-10929	TX/SX-MM850-ST	300 m	855-10913	TX/SX-MM850-SC	300 m
855-10231	TP/FO-MM850-SC	2 km	855-10930	TX/SX-MM850-SC	300 m	855-10914	TX/LX-SM1310/-SC	10 km
855-10232	TP/FO-MM1300-ST	2 km	855-10927	TX/FX-MM1300-ST	2 km	855-10915	TX/LX-SM1310/PLUS-SC	40 km
855-10233	TP/FO-MM1300-SC	2 km	855-10928	TX/FX-MM1300-SC	2 km	855-10917	TX/LX-SM1550/LONG-SC	70 km
855-10234	TP/FO-SM1310/PLUS-ST	40 km	855-10931	TX/FX-SM1310/PLUS-ST	40 km	McBasic 1000 Mbps Gigabit Single-Strand Fiber *		
855-10235	TP/FO-SM1310/PLUS-SC	40 km	855-10932	TX/FX-SM1310/PLUS-SC	40 km	855-10844	TX/SSLX-SM1310-SC (1550rcv)	10 km
855-10237	TP/FO-SM1310/LONG-ST	80 km	855-10933	TX/FX-SM1310/LONG-ST	80 km	855-10845	TX/SSLX-SM1550-SC (1310rcv)	10 km
855-10238	TP/FO-SM1310/LONG-SC	80 km	855-10934	TX/FX-SM1310/LONG-SC	80 km	855-10846	TX/SSLX-SM1310/PLUS-SC (1550rcv)	40 km
855-10240	TP/FO-SM1550/LONG-SC	80 km	855-10937	TX/FX-SM1550/LONG-SC	80 km	855-10847	TX/SSLX-SM1550/PLUS-SC (1310rcv)	40 km
851-10124	TP/BNC		McBasic 100 Mbps Single-Strand Fiber *			855-10850	TX/SSLX-SM1310/LONG-SC (1550rcv)	60 km
			855-10949	TX/SSFx-MM1310-SC (1550rcv)	2 km	855-10851	TX/SSLX-SM1550/LONG-SC (1310rcv)	60 km
			855-10950	TX/SSFx-MM1550-SC (1310rcv)	2 km	855-10852	TX/SSLX-SM1490/XLONG-SC (1550rcv)	70 km
			855-10951	TX/SSFx-SM1310-SC (1550rcv)	20 km	855-10853	TX/SSLX-SM1550/XLONG-SC (1490rcv)	70 km
			855-10952	TX/SSFx-SM1550-SC (1310rcv)	20 km			
			855-10953	TX/SSFx-SM1310/PLUS-SC (1550rcv)	40 km			
			855-10954	TX/SSFx-SM1550/PLUS-SC (1310rcv)	40 km			
			855-10955	TX/SSFx-SM1310/LONG-SC (1550rcv)	60 km			
			855-10957	TX/SSFx-SM1550/LONG-SC (1310rcv)	60 km			

PART #	DESCRIPTION	DIST
McBasic 10/100 Mbps		
855-10260	10/100-MM850-ST	300 m
855-10261	10/100-MM850-SC	300 m
855-10262	10/100-MM1300-ST	2 km
855-10263	10/100-MM1300-SC	2 km
855-10267	10/100-SM1310/PLUS-ST	40 km
855-10268	10/100-SM1310/PLUS-SC	40 km
855-10269	10/100-SM1310/LONG-ST	80 km
855-10270	10/100-SM1310/LONG-SC	80 km
855-10274	10/100-SM1550/LONG-SC	80 km

PART #	DESCRIPTION
Rackmount/Wallmount Accessories	
895-39226	McBasic, MediaChassis, AccessEtherLinX Rackmount Brackets
895-39227	McBasic, MediaChassis, AccessEtherLinX Wallmount Brackets
895-39228	McBasic, MediaChassis, AccessEtherLinX x3 Rackmount Shelf
895-39949	McBasic, iMediaChassis/3, MediaChassis, AccessEtherLinX Rackmount Shelf

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



IMC Networks

Headquarters

19772 Pauling
Foothill Ranch, CA 92610
TEL: 949-465-3000
FAX: 949-465-3020
sales@imcnetworks.com
www.imcnetworks.com

IMC Networks

Europe

Herseltsesteenweg 268
B-3200 Aarschot | Belgium
TEL: +32-16-550880
FAX: +32-16-550888
eurosales@imcnetworks.com

IMC Networks

Eastern US/Latin America

18840 US Hwy. 19 North Suite 400
Clearwater, FL 33764
TEL: 727-524-8152/524-8071 (Latin)
FAX: 727-524-8432
latinsales@imcnetworks.com

IMC Networks

Fiber Consulting Services

For information call:
TEL: 949-465-3000
1-800-624-1070 (US/CAN)
+32-16-550880 (Europe)
fcs@imcnetworks.com

Copyright © 2007 IMC Networks. All rights reserved. The information in this document is subject to change without notice. IMC Networks assumes no responsibility for any errors that may appear in this document. Specific product names may be trademarks or registered trademarks and are the property of their respective companies.