

# McBasic

## Standalone Media Converters



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.

**With its small yet rugged design, internal AC power supply and troubleshooting features, McBasic is the best standalone media converter in the industry.**

### 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 or Small Form Factor fiber connectors

### 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 assist in diagnosing problems on fiber optic networks

**Gigabit Ethernet McBasic Converters** provide a single conversion between 1000 Mbps Gigabit Ethernet twisted pair and fiber.

**Ethernet McBasic Converters** provide a single conversion between 10 Mbps Ethernet twisted pair and either fiber or thin coax.

**Fast Ethernet McBasic Converters** provide a single conversion between 100 Mbps Fast Ethernet twisted pair and fiber. Available for regular duplex fiber and single-strand fiber.

**Autosensing 10/100 McBasic Converters** provide a single conversion between either 10 Mbps twisted pair and 10 Mbps fiber, or 100 Mbps twisted pair and 100 Mbps fiber.

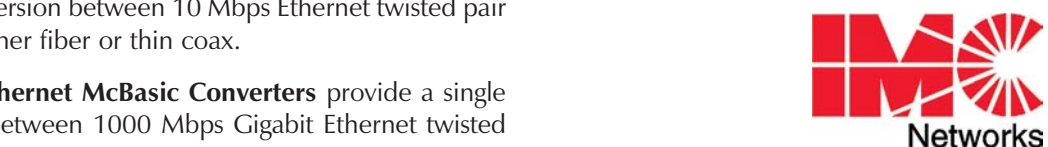
*McBasic's* small, table-top design and durability make it perfect for installation anywhere space is limited. Additionally, *McBasic* comes with an internal AC power supply. This feature can significantly increase reliability over products that use bulky, external AC/DC power transformers.

*McBasic* includes troubleshooting features such as *LinkLoss*, *FiberAlert*, *Transparency* and *Link Fault Detection* that make isolating fiber breaks easier should they occur. *McBasic* also features either *AutoCross* or switch-selectable crossover/pass-through on twisted pair connections, switch-selectable termination on BNC ports, and LEDs that assist in network diagnostics and troubleshooting.

The *McBasic Series* includes the following:

- 10 Mbps copper-to-fiber
- 100 Mbps copper-to-fiber
- 10 Mbps copper-to-coax
- 100 Mbps copper-to-single-strand fiber
- 10/100 Mbps copper-to-fiber
- 1000 Mbps copper-to-fiber

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



**Making Your Network Better**

## Technical Specifications

The *McBasic Series* is IEEE 802.3 10Base-FL, 10Base-T, 10Base-2, 100Base-TX, 100Base-FX, 100Base-SX compliant. *McBasic Gigabit* is 802.3ab 1000Base-T and IEEE 802.3z 1000Base-LX and 1000Base-SX compliant. Some units include troubleshooting features such as *LinkLoss*, *FiberAlert*, *Transparency* and *Link Fault Detection*. Multi-mode and single-mode fiber versions are available for all *McBasic* units with fiber ports. A variety of fiber connectors, including ST, SC, LC and MT-RJ, are available as well.

**Dimensions:** 1.50"H x 4.65"W x 4.43"D  
(3.8 cm x 11.8 cm x 11.3 cm)      **Shipping Weight:** 1.3 lbs (.6 kg)  
**AC Input Load:** 100/240 ±10% VAC, 50/60Hz, 0.1/0.05A (0.2/0.1A for *McBasic Gigabit*)  
**Humidity:** 5 – 95% (non-condensing)  
**Maximum Heat Generated:** 25 BTU/hour (50 BTU/hour for *McBasic Gigabit*)  
**Operating Temperature:** 32° – 104°F (0° – 40°C)  
**Storage Temperature:** 0° – 160°F (-20° – 70°C)

## Fiber Optics Specifications

The approximate average fiber distance for each *McBasic* is listed below in the Ordering Information section after the product name. The distance in Km is designated by the number in the [XX]. Distances are based on factory testing; actual installation distances may vary. For complete power budget information and further information on calculating specific distances, please go to [www.imcnetworks.com/adocs/fcs.asp](http://www.imcnetworks.com/adocs/fcs.asp) or contact IMC Networks Fiber Consulting Services at 949-465-3000.

## Ordering Information

### 10 Mbps McBasic

**55-10226** McBasic, TP/FO-MM850-ST [4km]  
**55-10236** McBasic, TP/FO-MM850-SC [4km]  
**55-10246** McBasic, TP/FO-MM1300-ST [10km]  
**55-10256** McBasic, TP/FO-MM1300-SC [10km]  
**55-10266** McBasic, TP/FO-SM1310-ST [20km]  
**55-10276** McBasic, TP/FO-SM1310-SC [20km]  
**55-10286** McBasic, TP/FO-SM1310/PLUS-ST [40km]  
**55-10296** McBasic, TP/FO-SM1310/PLUS-SC [40km]  
**51-10123** McBasic, TP/BNC

### 100 Mbps McBasic

**55-10127** McBasic, TX/FX-MM1300-ST [2km]  
**55-10128** McBasic, TX/FX-MM1300-SC [2km]  
**55-10127-MT** McBasic, TX/FX-MM1300-MT [2km]  
**55-10129** McBasic, TX/SX-MM850-ST [0.3km]  
**55-10130** McBasic, TX/SX-MM850-SC [0.3km]  
**55-10327** McBasic, TX/FX-SM1310/PLUS-ST [40km]  
**55-10328** McBasic, TX/FX-SM1310/PLUS-SC [40km]  
**55-10329** McBasic, TX/FX-SM1310/LONG-ST [80km]  
**55-10330** McBasic, TX/FX-SM1310/LONG-SC [80km]  
**55-10329-LC** McBasic, TX/FX-SM1310/LONG-LC [80km]  
**55-10340** McBasic, TX/FX-SM1550/LONG-SC [80km]

### 100 Mbps Single-Strand Fiber McBasic

#### Matched Pair/Set of Xmt/Rcv Chassis

**55-10700** McBasic Set, TX/SSFX-SM-SC [20km]  
**55-10702** McBasic Set, TX/SSFX-SM/PLUS-SC [40km]

#### Individual Xmt/Rcv Chassis

**55-10251** McBasic, TX/SSFX-SM1310-SC [20km]  
**55-10252** McBasic, TX/SSFX-SM1550-SC [20km]  
**55-10253** McBasic, TX/SSFX-SM1310/PLUS-SC [40km]  
**55-10254** McBasic, TX/SSFX-SM1550/PLUS-SC [40km]

### 10/100 Mbps McBasic

**55-10260** McBasic, 10/100-MM850-ST [0.3km]  
**55-10261** McBasic, 10/100-MM850-SC [0.3km]  
**55-10262** McBasic, 10/100-MM1300-ST [2km]  
**55-10263** McBasic, 10/100-MM1300-SC [2km]  
**55-10262-MT** McBasic, 10/100-MM1300-MT [2km]  
**55-10267** McBasic, 10/100-SM1310/PLUS-ST [40km]  
**55-10268** McBasic, 10/100-SM1310/PLUS-SC [40km]  
**55-10267-MT** McBasic, 10/100-SM1310/PLUS-MT [40km]  
**55-10269** McBasic, 10/100-SM1310/LONG-ST [80km]  
**55-10270** McBasic, 10/100-SM1310/LONG-SC [80km]  
**55-10269-LC** McBasic, 10/100-SM1310/LONG-LC [80km]  
**55-10274** McBasic, 10/100-SM1550/LONG-SC [80km]

### 1250 Mbps Gigabit McBasic

**55-10910** McBasic-Gigabit, TX/SX-MM850-SC [0.3km]  
**55-10910-MT** McBasic-Gigabit, TX/SX-MM850-MT [0.3km]  
**55-10911** McBasic-Gigabit, TX/LX-SM1310/PLUS-SC [40km]  
**55-10912** McBasic-Gigabit, TX/LX-SM1550/LONG-SC [70km]

### Accessories

**95-39226** McBasic/MediaChassis Rackmount Brackets  
**95-39227** McBasic/MediaChassis Wallmount Brackets  
**95-39228** McBasic/MediaChassis x3 Rackmount Shelf



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