Ideal for Fiber-to-the-Desktop applications, McPC installs directly inside a PC.

Features and Benefits

Convert twisted pair to fiber.

Plug-and-play operation
- Easily installs inside a desktop PC
- No configuration required, connects to existing NIC card
- No drivers to install; McPC mounts inside any PC or workstation with a standard PCI or ISA slot

Meets a multitude of installation requirements
- Available in 100 Mbps, 1000 Mbps and 10/100 Mbps auto-sensing versions
- Available for multimode or single-mode fiber
- Available with ST or SC connectors
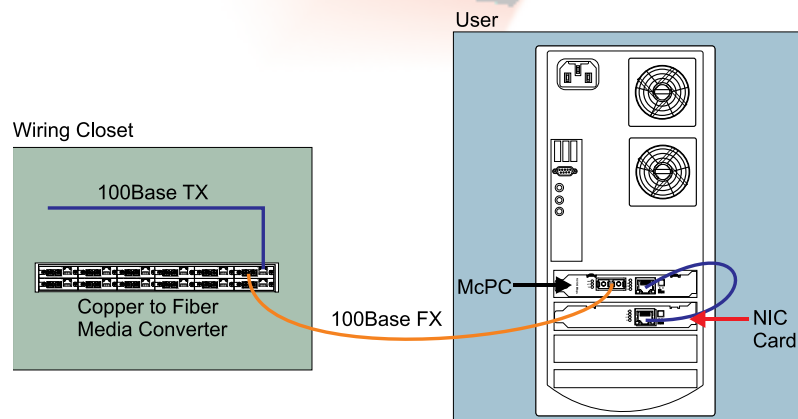
Eases troubleshooting
- Status LEDs assist in diagnosing network problems
- Some models also offer advanced troubleshooting such as LinkLoss, FiberAlert or Link Fault Detection

McPC Series Media Converters are ideal for Fiber-to-the-Desktop (FTTD) applications and for companies with frequent workstation moves and changes. Installing inside a PC or workstation, and plugging into an adjacent network interface card (NIC), these compact units eliminate the need to place Media Converters on top of desks or computers, reducing clutter of cords and adapters at the workspace.

The McPC series includes:
- **100 Mbps Fast Ethernet (TX/FX)** - Designed to connect to NIC cards running at Fast Ethernet speeds
- **10/100 Mbps** - A media converter that auto-senses the connected device's rate (10 Mbps or 100 Mbps) and duplex mode (Half-Duplex/Full-Duplex)
- **1000 Mbps Gigabit Ethernet (TX/SX or /LX)** - Converts 1000 Mbps over copper to 1000 Mbps over fiber. Ideal for bringing Gigabit speed connectivity to the desktop

McPC converters accommodate crossover or pass through cables, with either a pushbutton MDI/MDIX switch or AutoCross, a feature which automatically selects the correct operating mode. Units also feature handy status LEDS to assist in network diagnostics and troubleshooting. In addition, McPC TX/FX and McPC 10/100 include troubleshooting features that make it easy to isolate fiber breaks.
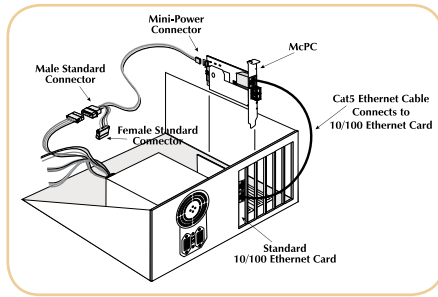
User

Wiring Closet

100Base TX

Copper to Fiber
Media Converter

100Base FX

McPC

NIC
Card

Application Example
The McPC series is ideal for delivering FTTD applications to employees in an environment of changing workstation locations. Run fiber from the wiring closet to users and install McPC inside the PC to connect to a twisted pair NIC.

Technical Specifications

Features of all McPC Converters

- Save money by keeping existing copper network card (NIC) and converting inside the PC
- No drivers to install; McPC mounts inside any PC or workstation with a standard PCI or ISA slot
- Includes a standard 4-pin peripheral power connector
- AutoCross or push-button selectable MDI/MDIX, depending on the unit
- 50/125μm or 62.5/125μm multi-mode fiber
- Supports Half- and Full-Duplex operation
- Includes status LEDs
- RoHS-Compliant

McPC 100 Mbps (TX/FX)

- 100 Mbps twisted pair copper to fiber media conversion
- IEEE 802.3u 100Base-TX twisted pair
- Features LinkLoss and FiberAlert
- Features Auto Negotiation

McPC 10/100 Mbps (TP-TX/FX)

- 10 Mbps and 100 Mbps to 100 Mbps twisted pair, auto-sensing media conversion
- IEEE 802.3 10Base-T twisted pair
- IEEE 802.3u 100Base-TX twisted pair
- IEEE 802.3u 100Base-FX or SX fiber
- Plug-and-play operation
- Features Auto Negotiation

McPC-Gigabit (TX/SX, TX/LX)

- 1000 Mbps twisted pair to fiber media conversion
- IEEE 802.3ab 1000Base-T twisted pair
- IEEE 802.3z 1000Base-LX or SX fiber
- Optionally available for single-strand fiber

All McPC Converters

RegulatoryApprovals:

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

Shipping Weight:

0.6 lbs (0.22 kg)

Operating Temperature:

+32° to +122° F (0° to +50° C)

Storage Temperature:

-4° to +158° F (-20° to +70° C)

Humidity:

5% – 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
McPC TX/FX 100 Mbps - ISA		
855-13127	McPC/ISA, TX/FX-MM1300-ST	5 km
855-13128	McPC/ISA, TX/FX-MM1300-SC	5 km
855-13328	McPC/ISA, TX/FX-SM1310/PLUS-SC	40 km
McPC TX/FX 100 Mbps - PCI		
855-12127	McPC/PCI, TX/FX-MM1300-ST	5 km
855-12128	McPC/PCI, TX/FX-MM1300-SC	5 km
855-12328	McPC/PCI, TX/FX-SM1310/PLUS-SC	40 km

PART NUMBER	DESCRIPTION	DISTANCE
McPC 10/100 Mbps - ISA		
855-13260	McPC/ISA, 10/100-MM850-ST	2 km
855-13261	McPC/ISA, 10/100-MM850-SC	2 km
855-13263	McPC/ISA, 10/100-MM1300-SC	5 km
McPC 10/100 Mbps - PCI		
855-12260	McPC/PCI, 10/100-MM850-ST	2 km
855-12261	McPC/PCI, 10/100-MM850-SC	2 km
855-12263	McPC/PCI, 10/100-MM1300-SC	5 km

PART #	DESCRIPTION	DIST
McPC-Gigabit 1000 Mbps		
855-12900	McPC/PCI-Gigabit, TX/SX-MM850-SC	220/550 m
855-12901	McPC/PCI-Gigabit, TX/LX-SM1310-SC	15 km
855-12902	McPC/PCI-Gigabit, TX/LX-SM1310/PLUS-SC	40 km
855-12903	McPC/PCI-Gigabit, TX/LX-SM1550/LONG-SC	80 km
McPC-Gigabit 1000 Mbps - Single-Strand Fiber*		
855-12904	McPC/PCI-Gigabit, TX/SSLX-SM1310-SC (1550rcv)	15 km
855-12905	McPC/PCI-Gigabit, TX/SSLX-SM1550-SC (1310rcv)	15 km
855-12906	McPC/PCI-Gigabit, TX/SSLX-SM1310/PLUS-SC (1550rcv)	40 km
855-12907	McPC/PCI-Gigabit, TX/SSLX-SM1550/PLUS-SC (1310rcv)	40 km

PART NUMBER	DESCRIPTION
Accessories	
806-39230	SATA Cable for McPC