

FEATURES

- Dynamic modular system grows with your network.
- More module choices than any other media converter system.
- Tough construction for hard use: Most modules are NEBS Level 3 certified.
- Use with or without management.
- Hot-swappable modules.
- Four different powered chassis to choose from.

OVERVIEW

The Dynamic Fiber Conversion System is without a doubt the most robust media conversion system we've ever evaluated.

The system is suited for fiber-based carrier-class or enterprise networks. It withstands harder use than most media conversion systems and offers a wider choice of modules—including autosensing 10/100/1000 Ethernet media converters and switches—than any other system. Plus, it's fully SNMP manageable. You just aren't going to find a harder-working, more-versatile system anywhere.

Tough as nails

Most components of the Dynamic Fiber Conversion System are NEBS Level 3 certified (See "What is NEBS Level 3?" on page 5), and the rest are in the process of being certified. The system is suitable for the most demanding carrier-class applications in telco central offices (COs). The heavy-duty chassis stand up to hard use and each module screws solidly into place.

Fully manageable

The Dynamic Fiber Conversion System is completely SNMP manageable with the installation of one SNMP Management Module in each chassis. You can manage a stack of up to 16 chassis in one location as a single IP address.

The SNMP Management Module features a 32-bit, high-performance RISC processor. It has a serial port for initial configuration, a frontplane or backplane Ethernet management port, and a pair of multichassis management ports.

The SNMP Management Module polls all converters and power supplies in its domain every second, collecting status and module information. It reports this information to the management software.

Use any standard SNMP management software to manage the system using in-band or out-of-band SNMP and Telnet.

Optional Management Software is customized to work with the Dynamic Fiber Conversion System. It can operate as a standalone application in Windows® 9x/Me/XP, Windows 2000, or Windows NT®. Or you can integrate it into a management program such as HP® OpenView®.

Management Software features an intuitive GUI interface, which provides real-time monitoring, configuration, alarms, and event/trap management.

The software monitors chassis power, voltage, current, and temperature. It enables you to remotely and selectively monitor and configure the chassis, modules, and ports. Settings, such as speed, are switch selectable at the module but can be overridden through the Management Software. (See Management Features on page 4.)

You can group the modules together for mass configuration, and they maintain settings even if there's a power outage.

Backplane links

Many modules—in particular, the Switch Module—can be linked to other modules in the chassis through the backplane, enabling multiple modules to act as one. The backplane link can be made through a DIP switch on the module or through the management software.

Modules that support backplane links are the Switch Module (LMC3050C), some Gigabit modules (LMC3058C–LMC3063C), and some copper/fiber converters (LMC3033C–3042C).

Choose from four different powered chassis

The 19-Slot Power Chassis holds up to 19 converter modules or 18 converter modules plus a management module. For extra power redundancy, it holds up to three AC or DC power supplies in any combination, each cooled with an integral fan. The chassis occupies 2U (3.5") of rack space and comes complete with rackmount ears.

The 5-Slot Power Chassis enables you to put five modules into only 1U (1.75") of rack space. It accommodates one or two AC or DC power supplies.

The 2-Slot Power Chassis is intended for desktop use and has one AC or DC power supply.

The 19-, 5-, and 2-Slot Chassis are manageable with the addition of SNMP Management modules. The chassis report the voltage, current, and temperature of each power supply.

Use the unmanaged 1-Slot Power Chassis in non-critical remote locations. It's intended for desktop use and is available only with an AC power supply.

Many hot-swappable modules to choose from

The Dynamic Fiber Conversion System gives you more module choices than any other we offer, including multimode fiber, single-mode fiber, single-strand fiber, 10/100/1000 Ethernet, Gigabit Ethernet, a 4-port switch module, ATM, and T1/E1.

All modules are hot swappable and manageable.

UTP to Coax Module

This module converts Ethernet from 10BASE-T to 10BASE2 cable. It works at a speed of 10 Mbps.

UTP ports detect and correct wiring polarity reversals. The module has a crossover switch that enables you to use a straight-through cable to connect to a workstation or hub.

The coax port has a BNC connector and supports 50-ohm cable at distances of up to 184.7 m.

UTP to Multimode Duplex Fiber Modules

These modules convert Ethernet from twisted-pair to standard duplex multimode fiber optic cable. They're available in 10-Mbps, 100-Mbps, and 1000-Mbps, as well as autosensing 10-/100-Mbps and 10-/100-/1000-Mbps modules.

UTP ports are autosensing for half- or full-duplex. An MDI/MDI-X switch eliminates the need for crossover cable. Plus, the modules feature Link Propagation, which passes on link disconnection information from the fiber side to the copper side, and vice-versa.

UTP to Single-Mode Duplex Fiber Modules

Single-mode fiber optic cable is the preferred choice for long-distance applications, and the Dynamic Fiber Conversion System offers many single-mode fiber choices, supporting ranges of up to 80 kilometers (that's about 50 miles!).

10-/100-Mbps and 10-/100-/1000-Mbps modules are auto-sensing for speed on the UTP side. UTP ports on all modules are autosensing for half- or full duplex. All modules have switch-selectable MDI/MDI-X and a Link Propagation feature for communicating link disconnection information from the copper to fiber side, or the fiber to copper side.

UTP to Single-Mode Single-Strand Modules

These modules enable you to save on cabling costs by transmitting and receiving over one single-mode fiber strand. (See the "Single-strand fiber WDM" box on [page 4](#).) Like our UTP to Single-Mode Duplex Fiber Modules, single-fiber modules are autosensing for speed on 10-/100-Mbps and 10-/100-/1000-Mbps modules and are autosensing for half- or full-duplex. They also have switch-selectable MDI/MDI-X and a Link Propagation feature.

Mode Converters

Mode Converters enable you to interconnect multimode and single-mode fiber optic cable. All have a Link Propagation feature for remote troubleshooting.

Redundant Modules

These modules convert a single 100BASE-TX UTP link to dual 100-Mbps fiber optic or dual 10-/100-Mbps copper links. They provide hot backup for your vital connections, switching to the redundant link within 100 microseconds if the primary link goes down.

All ports support full or half-duplex operation; UTP ports autonegotiate duplex, and fiber ports can only be set manually. All UTP ports support MDI/MDI-X, eliminating the need for crossover cables. All ports support Link Loss Carry Forward (Link Propagation).

Switch Module

Not a converter, but a welcome addition to the Dynamic Fiber Conversion System, the Switch Module features four

10-/100-Mbps Ethernet ports. The switch is autosensing for both speed and duplex with hardware control available for two ports and software control available for all four ports.

The switch supports MDI/MDI-X crossover. Port 1 has a manual crossover switch; Ports 2, 3, and 4 feature automatic crossover detection.

ATM OC3 Modules

These modules support OC3 over ATM or SONET and convert duplex multimode fiber optic cable to duplex single-mode fiber optic cable. They enable you to use single-mode cable to add up to 28 kilometers (17.4 mi.) of distance to your OC3 network. Plus, you get another 5 kilometers (3.1 miles) of distance on the multimode side.

For fault detection, the modules feature Line Propagate, Link Segment, and Remote Fault Detection modes.

T1/E1 Modules

Convert copper T1 lines with RJ-48 connectors to single- or multimode fiber for long-range transmission. The modules support AMI or B8ZK/HDB3 modes. A DCE/DTE switch eliminates the need for crossover cable when connecting to devices such as PBXs and CSUs. Test modes include Local Loopback, Force 1s to Copper, Force 1s to Fiber, and Fiber Test.

Modules with VLAN Tagging

Multimode and single-mode modules are also available with VLAN tagging.

The modules provide UTP to fiber conversion as well as rate conversion between 10BASE-T or 100BASE-TX and 100BASE-FX fiber.

The modules support IEEE 802.1Q Tag VLAN packet tagging and untagging including double-tagging (1Q1A double-stacking) as well as PortVLAN. VLAN tagging provides a secure way to keep track of data packets as they are transported across a LAN or WAN. It also enables users to tunnel enterprise VLAN networks transparently through the service provider's network.

Like the versions without VLAN tagging, these modules are available with different fiber port options such as multimode, single-mode, and single-fiber. They support ST, SC, MT-RJ, and LC connectors.

Desktop or Wallmount Managed Media Converters for the Dynamic Fiber Conversion System

These remote managed media converters fit neatly on a desktop or mount on a wall. Models are available with 110-VAC, 220-VAC, or 8-16-VDC power supplies. They convert 10BASE-T/100BASE-TX to 100BASE-FX. The converters work with all components of the Dynamic Fiber Conversion System. (See the ordering information on [pages 6-8](#).) Management software (LMC3003A) is also available.

Technically Speaking

Single-strand fiber WDM.

Traditional fiber optic media converters perform a useful function but don't really reduce the amount of cable needed to send data on a fiber segment. They still require two strands of glass to send transmit and receive signals for fiber media communications. Wouldn't it be better to combine these two logical communication paths within one strand?

That's exactly what single-strand fiber conversion does. It compresses the transmit and receive wavelengths into one single-mode fiber strand.

The conversion is done with Wave Division Multiplexing (WDM) technology. WDM increases the information-carrying capacity of optical fiber by transmitting two signals simultaneously at different wavelengths on the same fiber. The way it usually works is that one unit transmits at 1550 nm and receives at 1310 nm. The other unit transmits at 1310 nm and receives at 1550 nm. The two wavelengths operate independently and don't interfere with each other. This bidirectional traffic flow effectively converts a single fiber into a pair of "virtual fibers," each driven independently at different wavelengths.

WDM on single-strand fiber is most often used for point-to-point links on a long-distance network. It's also used to increase network capacity or relieve network congestion.



MANAGEMENT FEATURES

Chassis Information

- Part Number
- Serial Number
- Revision
- Description

Chassis Status

- Power Status
- Power Output Voltage
- Chassis Temperature
- Chassis Reset

Port Information

- Name
- Type
- Speed
- Slot Occupied
- Port Number

Port Status

- Administrative
- Operational
- Link

Module Status

- Module Power
- Link Status
- Activity
- Active Port
- Diagnostic Status
- Management
- Redundancy
- Media Converter Type
- Slot Occupied
- Part Number
- Serial Number
- Configuration
- Revision
- Ports on Module

Alarms

- Cold Start
- Warm Start
- Link Up
- Link Down
- Authentication Failure
- Configuration Change

- Backplane Failure
- Temperature Out of Range
- Power Supply On/Off
- Power Supply Inserted
- Power Supply Removed
- Chassis Reset
- Module Reset
- Port Reset
- Module Insertion
- Module Removal
- Module Unknown
- Module Failure
- Port Link State Change
- Redundant Switchover

Active Control

- Link Propagate
- Remote Fault Detection
- Port Name
- Module Name
- Chassis Name and Location
- IP Address
- Disable Management Port
- Alarm Threshold Setting
- Download Software via FTP
- Reset Chassis
- Subnet Mask
- Default Gateway
- Telnet to Console Commands

Management Module

Statistics

- In Bytes
- Out Bytes
- In Errors
- Out Errors
- In Discards
- Out Discards

Technically Speaking

What is NEBS Level 3?

Network Equipment Building System (NEBS) standards set requirements for telco equipment. The standards are maintained by Telcordia Technologies, Inc., formerly Bellcore. Bellcore Special Report, SR-3580 defines three distinct functional levels of NEBS compliance. The third of these levels, NEBS Level 3, is the most stringent, certifying carrier-class equipment intended for long-term use in variable environments.

TECH SPECS for Chassis

Power — LMC3004A–LMC3005A, LMC3010A, LMC3080A, LMC3014A: 110–230 VAC, 50–60 Hz, autosensing, internal; LMC3007A–LMC3008A, LMC3012A, LMC3081A–LMC3082A: ± 48 VDC, internal; LMC3015A: 110 VAC, 60 Hz, external (220-VAC power supply available on request)

Size — 19-Slot Chassis: 3.5"H (2U) x 17.2"W x 14"D (8.9 x 43.7 x 35.6 cm); 5-Slot Chassis: 1.75"H (1U) x 17.2"W x 9"D (4.4 x 43.7 x 22.9 cm); 2-Slot Chassis: 1.9"H x 6.7"W x 5.5"D (4.8 x 17 x 14 cm); 1-Slot Chassis: 1"H x 3.8"W x 5.5"D (2.5 x 9.7 x 14 cm)

Weight — 19-Slot Chassis: Single power supply: 16 lb. (7.3 kg); Dual power supplies: 18.5 lb. (8.4 kg); 5-Slot Chassis: Single power supply: 7.5 lb. (3.4 kg); Dual power supplies: 9 lb. (4.1 kg); 2-Slot Chassis: 2.5 lb. (1.1 kg); 1-Slot Chassis: 1.5 lb. (0.7 kg)

TECH SPECS for Managed Desktop and Wallmount Models

Connectors — See ordering information on page 8

Indicators — (1) Power, (3) Power Supply, (1) Fiber Optic Link (FO), (1) Master/Slave (BP), (1) 10 UTP, (1) 100 UTP, (1) FDX

Power — LMC3100A–LMC3115A: 110 VAC, 60 Hz, external; LMC3100AE–LMC3115AE: 220 VAC, 50 Hz, external; LMC3100A-DC–LMC3115A-DC: 8–16 VDC

Size — 1"H x 3.8"W x 5.5"D (2.5 x 9.7 x 14 cm)

Weight — 1.5 lb. (0.7 kg)

NEBS Level 3 certifies that a piece of equipment can be safely used in an extreme environment. To become certified at NEBS Level 3, a device must meet strict physical, electrical, and environmental requirements to prove it will operate safely and reliably in extreme conditions. It must pass a series of tests that include extreme heat, humidity, fire, earthquakes (Zone 4), light, and noise.

TECH SPECS for Modules

Connectors — LMC3000A: (1) DB9 serial, (2) RJ-45 Ethernet, (2) proprietary multichassis management ports; Converter Modules: See ordering information on pages 6–7

Indicators — LEDs:

LMC3000A: (1) Power, (3) Power Supply, (1) UTP Link, (1) Master, (1) Slave, (1) Management Poll; LMC3018C-R2–LMC3022C-R2: (1) Power, (1) Fiber Link, (1) UTP Link; LMC3023C–LMC3032C: (1) Power, (1) Fiber Link, (1) UTP Link, (1) Auto, (1) Half-/Full-Duplex; LMC3033C–LMC3042C, LMC3084C–LMC3095C: (1) Power, (1) Fiber Link, (1) UTP Link, (1) Auto, (1) UTP Half-/Full-Duplex, (1) Fiber Half-/Full-Duplex, (1) 10/100; LMC3051C–LMC3052C, LMC3054C–LMC3057C: (1) Power, (1) Fiber Link, (1) UTP Link, (1) Fiber Half-/Full-Duplex; LMC3058C–LMC3063C: (1) Power, (1) Fiber Optic Link, (1) Auto, (1) Fiber, (1) Half-/Full-Duplex, (1) 10/100/1000; LMC3064C–LMC3073C: (1) Power, (2) Fiber Optic Link; LMC3045C–LMC3049C: (1) Power, (1) Fiber Optic Link, (1) UTP Link, (1) Select, (1) Auto, (1) Half-/Full-Duplex; LMC3043C: (1) Power, (1) UTP Link, (2) 10/100; LMC3050C: (1) Power, (4) UTP Link, (4) 10/100; LMC3074C–LMC3075C: (1) Power, (2) Fiber Optic Link; LMC3076C–LMC3079C: (1) Power, (1) Test, (1) RJ-45/RJ-48 Link, (1) Fiber Optic Link; LMC3083C: (1) Power, (1) RJ-45 Link, (1) BNC Link; LMC3100C–LMC3107C: (1) Power, (3) Power Supply, (1) Fiber Optic Link (FO), (1) Master/Slave (BP), (1) 10 UTP, (1) 100 UTP, (1) FDX

Power — From the interface

Size — 2.8"H x 0.9"W x 4.5"D (7.1 x 2.3 x 11.4 cm)

Weight — 0.5 lb. (0.2 kg)



LMC3004A: shown with modules

Item	Code
Dynamic Fiber Conversion System	
First, order the chassis...	
19-Slot Power Chassis (Managed, Rackmount) with (1) AC Power Supply	LMC3004A
with (2) AC Power Supplies	LMC3005A
with (1) DC Power Supply	LMC3007A
with (2) DC Power Supplies	LMC3008A
5-Slot Power Chassis (Managed, Rackmount) with (1) AC Power Supply	LMC3010A
with (2) AC Power Supplies	LMC3080A
with (1) DC Power Supply	LMC3012A
with (2) DC Power Supplies	LMC3081A
2-Slot Power Chassis (Managed, for Desktop Use) with (1) AC Power Supply	LMC3014A
with (1) DC Power Supply	LMC3082A
1-Slot Power Chassis (Unmanaged, for Desktop Use) with (1) AC Power Supply	LMC3015A
...then you may need some of these chassis accessories...	
NMM Cascade Cable, 3-ft. (0.9-m)	LMC3001A
Blank Panels for Unused Slots	LMC3002A
Wallmounting Kit for 1-Slot Chassis	LMC3017C
Spare Power Supplies	
for 19-Slot Chassis (Holds up to Three Power Supplies)	
AC	LMC3006P
DC	LMC3009P
for 5-Slot Chassis (Holds up to Two Power Supplies)	
AC	LMC3011P
DC	LMC3013P
If you want to manage your system, order a management module...	
SNMP Management Module	LMC3000A
...then software.	
Management Software	LMC3003A
Next order converter modules.	
UTP to Coax Modules	
10BASE-T to 10BASE2	LMC3083C
UTP to Multimode Duplex Fiber Modules	
10BASE-T/10BASE-FL	
850-nm, 2 km	
ST®	LMC3018C-R2
SC	LMC3021C-R2
1310-nm, 5 km	
ST	LMC3019C-R2
1310-nm, 30 km	
ST	LMC3020C-R2
SC	LMC3022C-R2
100BASE-TX to 100BASE-FX	
1310-nm, 5 km	
ST	LMC3023C
SC	LMC3026C
1310-nm, 30 km	
ST	LMC3024C
SC	LMC3027C
1310-nm, 60 km	
ST	LMC3025C
SC	LMC3028C

Item	Code
10BASE-T/100BASE-TX to 100BASE-FX	
1310-nm, 5 km	
ST	LMC3033C
SC	LMC3036C
1000BASE-T to 1000BASE-SX	
850-nm, 220 m	
SC	LMC3051C
MT-RJ	LMC3054C
10BASE-T/100BASE-TX/1000BASE-T to 1000BASE-SX	
850-nm, 220 m	
SC	LMC3058C
UTP to Single-Mode Duplex Fiber Modules	
10BASE-T/100BASE-TX to 100BASE-FX	
1310-nm	
30 km, ST	LMC3034C
30 km, SC	LMC3037C
60 km, ST	LMC3035C
60 km, SC	LMC3038C
1000BASE-TX to 1000BASE-LX	
1310-nm	
12 km, SC	LMC3052C
12 km, MT-RJ	LMC3055C
10BASE-T/100BASE-TX/1000BASE-T to 1000BASE-LX	
1310-nm	
12 km, SC	LMC3059C
34 km, SC	LMC3060C
1550-nm	
80 km, SC	LMC3061C
10BASE-T/100BASE-TX to 100BASE-FX with VLAN Tagging	
Multimode, 1310-nm/5 km	
ST	LMC3084C
SC	LMC3087C
MT-RJ	LMC3091C
Single-Mode, 1310-nm/30 km	
ST	LMC3085C
SC	LMC3088C
MT-RJ	LMC3092C
LC	LMC3093C
Single-Mode, 1310-nm/60 km	
ST	LMC3086C
SC	LMC3089C
LC	LMC3094C
Single-Mode, 1550-nm/120 km	
SC	LMC3090C
LC	LMC3095C



LMC3032C

Item	Code
UTP to Single-Mode Single Fiber	
100BASE-TX to 100BASE-FX	
1310-nm TX/1550-nm RX	
20 km, SC	LMC3029C
40 km, SC	LMC3030C
1550-nm TX/1310-nm RX	
20 km, SC	LMC3031C
40 km, SC	LMC3032C
10BASE-T/100BASE-TX to 100BASE-FX	
1310-nm TX/1550-nm RX	
20 km, SC	LMC3039C
40 km, SC	LMC3040C
1550-nm TX/1310-nm RX	
20 km, SC	LMC3041C
40 km, SC	LMC3042C
1000BASE-TX to 1000BASE-X	
1310-nm TX/1550-nm RX	
20 km, SC	LMC3056C
1550-nm TX/1310-nm RX	
20 km, SC	LMC3057C
10BASE-T/100BASE-TX/1000BASE-T to 1000BASE-X	
1310-nm TX/1550-nm RX	
20 km, SC	LMC3062C
1550-nm TX/1310-nm RX	
20 km, SC	LMC3063C
Mode Converters	
100BASE-FX Multimode Duplex to 100BASE-FX Single-Mode Duplex	
1310-nm/1310-nm, Multimode, 5 km/Single-Mode	
20 km, ST	LMC3064C
20 km, SC	LMC3066C
60 km, ST	LMC3065C
60 km, SC	LMC3067C
120 km, SC	LMC3068C
1000BASE-SX Multimode Duplex to 1000BASE-LX Single-Mode Duplex	
850-nm/1310-nm, Multimode, 220 m/Single-Mode	
12 km, SC	LMC3069C
34 km, SC	LMC3070C
80 km, SC	LMC3071C
1000BASE-X Multimode Duplex to 1000BASE-X Single-Mode Single-Strand	
220 m/20 km, SC	
1310-nm TX/1550-nm RX	LMC3072C
1550-nm TX/1310-nm RX	LMC3073C

Item	Code
Redundant Modules	
UTP to Dual Multimode Duplex Fiber	
(1) 100BASE-TX to (2) 100BASE-FX, 1310-nm	
5 km, SC	LMC3047C
UTP to Dual Single-Mode Duplex Fiber	
(1) 100BASE-TX to (2) 100BASE-FX, 1310-nm	
30 km, ST	LMC3045C
30 km, SC	LMC3048C
60 km, ST	LMC3046C
60 km, SC	LMC3049C
UTP to Dual UTP	
(1) 100BASE-TX to (2) 10/100BASE-T,	
100 m, RJ-45	LMC3043C
Switch Module	
4-Port 10/100 Ethernet Switch, (4) RJ-45	LMC3050C
ATM OC3 Modules	
Duplex Multimode to Duplex Single-Mode, 1310-nm/1310-nm	
5 km/28 km	
ST	LMC3074C
SC	LMC3075C
T1/E1 Copper to 1310-nm Multimode Duplex Fiber Modules	
5 km	
ST	LMC3076C
SC	LMC3078C
30 km	
ST	LMC3077C
SC	LMC3079C
Managed Media Converter Modules for the Dynamic Fiber Conversion System	
10BASE-T/100BASE-TX to 100BASE-FX, 1310-nm	
Multimode	
5 km, ST	LMC3100C
5 km, SC	LMC3102C
Single-Mode	
30 km, ST	LMC3101C
30 km, SC	LMC3103C
Single-Mode, Single-Strand, 20 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3104C
1550-nm TX/1310-nm RX, SC	LMC3106C
Single-Mode, Single-Strand, 40 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3105C
1550-nm TX/1310-nm RX, SC	LMC3107C



LMC3108A

Item	Code
Desktop Managed Media Converters for the Dynamic Fiber Conversion System, 110 VAC	
10BASE-T/100BASE-TX to 100BASE-FX	
Multimode, 5 km	
5 km, ST	LMC3100A
5 km, SC	LMC3102A
Single-Mode, 1310-nm, 30 km	
30 km, ST	LMC3101A
30-km, SC	LMC3103A
Single-Mode, Single-Strand, 20 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3104A
1550-nm TX/1310-nm RX, SC	LMC3106A
Single-Mode, Single-Strand, 40 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3105A
1550-nm TX/1310-nm RX, SC	LMC3107A
Desktop Managed Media Converters for the Dynamic Fiber Conversion System, 220 VAC	
10BASE-T/100BASE-TX to 100BASE-FX	
Multimode, 5 km	
ST	LMC3100AE
SC	LMC3102AE
Single-Mode, 1310-nm, 30 km	
ST	LMC3101AE
SC	LMC3103AE
Single-Mode, Single-Strand, 20 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3104AE
1550-nm TX/1310-nm RX, SC	LMC3106AE
Single-Mode, Single-Strand, 40 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3105AE
1550-nm TX/1310-nm RX, SC	LMC3107AE
Desktop Managed Media Converters for the Dynamic Fiber Conversion System, 8–16 VDC	
10BASE-T/100BASE-TX to 100BASE-FX	
Multimode, 5 km	
ST	LMC3100A-DC
SC	LMC3102A-DC
Single-Mode, 1310-nm, 30 km	
ST	LMC3101A-DC
SC	LMC3103A-DC
Single-Mode, Single-Strand, 20 km (Order one of each.)	
1310-nm TX/1550-nm RX, SC	LMC3104A-DC
1550-nm TX/1310-nm RX, SC	LMC3106A-DC
Single-Mode, Single-Strand, 40 km (Order one of each.)	
1310-nm TX/1550-nm RX, SC	LMC3105A-DC
1550-nm TX/1310-nm RX, SC	LMC3107A-DC

Item	Code
Wallmount Managed Media Converters for the Dynamic Fiber Conversion System, 110 VAC	
10BASE-T/100BASE-TX to 100BASE-FX	
Multimode, 5 km	
ST	LMC3108A
SC	LMC3110A
Single-Mode, 5 km	
ST	LMC3109A
SC	LMC3111A
Single-Mode, Single-Strand, 20 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3112A
1550-nm TX/1310-nm RX, SC	LMC3114A
Single-Mode, Single-Strand, 40 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3113A
1550-nm TX/1310-nm RX, SC	LMC3115A
Wallmount Managed Media Converters for the Dynamic Fiber Conversion System, 220 VAC	
10BASE-T/100BASE-TX to 100BASE-FX	
Multimode, 5 km	
ST	LMC3108AE
SC	LMC3110AE
Single-Mode, 5 km	
ST	LMC3109AE
SC	LMC3111AE
Single-Mode, Single-Strand, 20 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3112AE
1550-nm TX/1310-nm RX, SC	LMC3114AE
Single-Mode, Single-Strand, 40 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3113AE
1550-nm TX/1310-nm RX, SC	LMC3115AE
Wallmount Managed Media Converters for the Dynamic Fiber Conversion System, 8–16 VDC	
10BASE-T/100BASE-TX to 100BASE-FX	
Multimode, 5 km	
ST	LMC3108A-DC
SC	LMC3110A-DC
Single-Mode, 5 km	
ST	LMC3109A-DC
SC	LMC3111A-DC
Single-Mode, Single-Strand, 20 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3112A-DC
1550-nm TX/1310-nm RX, SC	LMC3114A-DC
Single-Mode, Single-Strand, 40 km (Order One of Each.)	
1310-nm TX/1550-nm RX, SC	LMC3113A-DC
1550-nm TX/1310-nm RX, SC	LMC3115A-DC