

Aurora's CWDM Ethernet Access System

Key Components

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SMART MEDIA CONVERTERS AND CHASSIS

CH2016B SMART Media Converter Chassis

2RU chassis for up to 16 model MC2401B (Fast Ethernet), MC2410B (Gigabit Ethernet), MC2701B (Fast Ethernet), or MC2710B (Gigabit Ethernet) SMART Media Converters. Includes Model CX2001B-00 communications module and is available with dual redundant 100-240 VAC or -48 VDC power supplies.

CWDM SMART Media Converters for CH2016B Chassis

MC2701B-xxxx-LC Fast Ethernet SMART Media Converter Module (10/100Base-TX to 100Base-FX) for one of 15 CWDM wavelengths (xxxx = 1270, 1290, ..., 1350, 1430, 1450, ..., 1610 nm). Single-width module includes duplex LC/UPC network connectors and RJ-45 TP connector for local network.

MC2710B-xxxx-LC Gigabit Ethernet SMART Media Converter Module (1000Base-TX to 1000Base-LX) for one of 15 CWDM wavelengths (xxxx = 1270, 1290, ..., 1350, 1430, 1450, ..., 1610 nm) determined by choice of plug-in SFP transceiver module. Single-width module includes facility for a plug-in (SFP) duplex LC/UPC network connector transceiver module. It also features two options for connections to the local network: a second facility for an additional SFP transceiver with duplex LC/UPC connectors or a fixed RJ-45 TP port.

MC2401B-xxxx-LC Fast Ethernet SMART Media Converter Module (10/100Base-TX to 100Base-FX) for one of 10 CWDM wavelengths (xxxx = 1430, 1450, ..., 1610). Single-width module includes duplex LC/UPC connectors.

MC2410B-xxxx-LC Gigabit Ethernet SMART Media Converter Module (1000Base-TX to 1000Base-LX) for one of 10 CWDM wavelengths (xxxx = 1430, 1450, ..., 1610). Single-width module includes duplex LC/UPC connectors.

CH1202B SMART Media Converter CPE Chassis

1RU chassis for one or two MC2700 series SMART Media Converters (MC2701B Fast Ethernet or MC2410B Gigabit Ethernet). Two chassis may also be mated to create a single 1RU high platform.

CWDM SMART Media Converters Standalone CPE

MC1401B-xxxx-LC Fast Ethernet SMART Media Converter CPE (10/100Base-TX to 100Base-FX) for one of 10 CWDM wavelengths (xxxx = 1430, 1450, ..., 1610). Unit includes duplex LC/UPC network connectors, RJ-45 TP connector for local network, and wall plug type power adapter.

MC1410B-xxxx-LC Gigabit Ethernet SMART Media Converter CPE (1000Base-TX to 1000Base-FX) for one of 10 CWDM wavelengths (xxxx = 1430, 1450, ..., 1610). Unit includes duplex LC/UPC network connectors, RJ-45 TP connector for local network, and power adapter.

CHASSIS-MOUNTED PASSIVES

OP3401x CWDM/1310 Optical Filters

OP3401x-0-yy-zz Single- or dual-packaged (x = S or D), single-width, half-depth, chassis-mounted CWDM filter with SC/APC connectors combines or separates 1310 nm and any/all CWDM wavelength(s) from 1430 to 1610 nm; available with or without -20dB test point (yy = 00 or 99) and with SC/APC connectors (zz = AS) or 5m connectorized pigtail on the COM port (zz = USPS)

OP34F1D Single-channel CWDM Optical Filters

OP34F1D-xxxx-0-00-AS Dual-packaged, single-width, half-depth, chassis-mounted add/drop filter with SC/APC connectors for single CWDM wavelength (xxxx = 1270, 1290, ..., 1350, 1430, 1450, ..., 1610 nm).

OP34M5x / OP34D5x 5-channel CWDM Multiplexers and Demultiplexers

OP34M5x-y-zz-AS Single-width, half-depth, chassis-mounted 5-channel CWDM multiplexers with cascade port and SC/APC connectors; available in three ranges of wavelengths (x = V for 1270-1350 nm, L for 1430-1510 nm, or H for 1530-1610 nm), with or without 1310 nm filter port (y = 0 or 1), and with or without -20dB test point (zz = 00 or 99), although not all combinations of features are available. The available models are OP34M5V-0-00-AS, OP34M5L-0-00-AS, OP34M5H-0-00-AS, OP34M5L-1-00-AS, OP34M5H-1-00-AS, OP34M5V-0-99-AS, OP34M5L-1-99-AS, and OP34M5H-1-99-AS.

OP34D5x-y-zz-AS A comparable set of 5-channel CWDM demultiplexers, with available model numbers OP34D5V-0-00-AS, OP34D5L-0-00-AS, OP34D5H-0-00-AS, OP34D5L-1-00-AS, OP34D5H-1-00-AS, OP34D5V-0-99-AS, OP34D5L-1-99-AS, and OP34D5H-1-99-AS.

OP34M10S / OP34D10S 10-channel CWDM Multiplexers and Demultiplexers

OP34x10S-y-zz-AS A comparable set of 10-channel CWDM multiplexers (x = M) and demultiplexers (x = D) for 10 channels from 1430 to 1610 nm, with available model numbers OP34M10S-0-00-AS, OP34M10S-1-00-AS, OP34M10S-1-99-AS, OP34D10S-0-00-AS, OP34D10S-1-00-AS, and OP34D10S-1-99-AS.

FIELD PASSIVES

OP9401 Outdoor CWDM/1310 Optical Filters

OP9401-0-xx-yy CWDM filter for field installation combines or separates 1310 nm and any/all CWDM wavelengths from 1430 to 1610 nm, and may also be used to combine or separate the "very low" group of 5 CWDM wavelengths (1270-1350 nm) with these same ten 1430-1610 nm wavelengths. Available in non-ruggedized, unconnectorized package with 0.250 mm pigtails (xx-yy = N0-00), a ruggedized, unconnectorized package with 2 mm fiber (xx-yy = R2-00), or a ruggedized package with 2mm fiber and SC/APC connectors (xx-yy = R2-AS).

OP94F1S Outdoor Single-channel CWDM Optical Filters

OP94F1S-xxxx-yy-zz CWDM filter adds (or drops) a single CWDM wavelength (xxxx = 1270, 1290, ..., 1350, 1430, 1450, ..., 1610 nm) to (or from) a through fiber. Available in non-ruggedized, unconnectorized package with 0.250 mm pigtails (xx-yy = N0-00), a ruggedized, unconnectorized package with 2 mm fiber (xx-yy = R2-00), or a ruggedized package with 2mm fiber and SC/APC connectors (xx-yy = R2-AS).

OP94M5x / OP94D5x Outdoor 5-channel CWDM Multiplexers and Demultiplexers

OP94M5w-x-00-yy-zz 5-channel CWDM multiplexers in field-hardened enclosures with an expansion (cascade) port; available in three ranges of wavelengths (w = V for 1270-1350 nm, L for 1430-1510 nm, or H for 1530-1610 nm), with or without 1310 nm filter port (x = 2 or 1, respectively). Available in a ruggedized, unconnectorized package with 0.900 mm loose fiber (xx-yy = R1-00), a ruggedized, unconnectorized package with 2 mm fiber (xx-yy = R2-00), or a ruggedized package with 2 mm fiber and SC/APC connectors (xx-yy = R2-AS).

OP94D5w-x-00-yy-zz A comparable set of 5-channel CWDM demultiplexers.

OP94M10 / OP94D10 Outdoor 10-channel CWDM Multiplexers and Demultiplexers

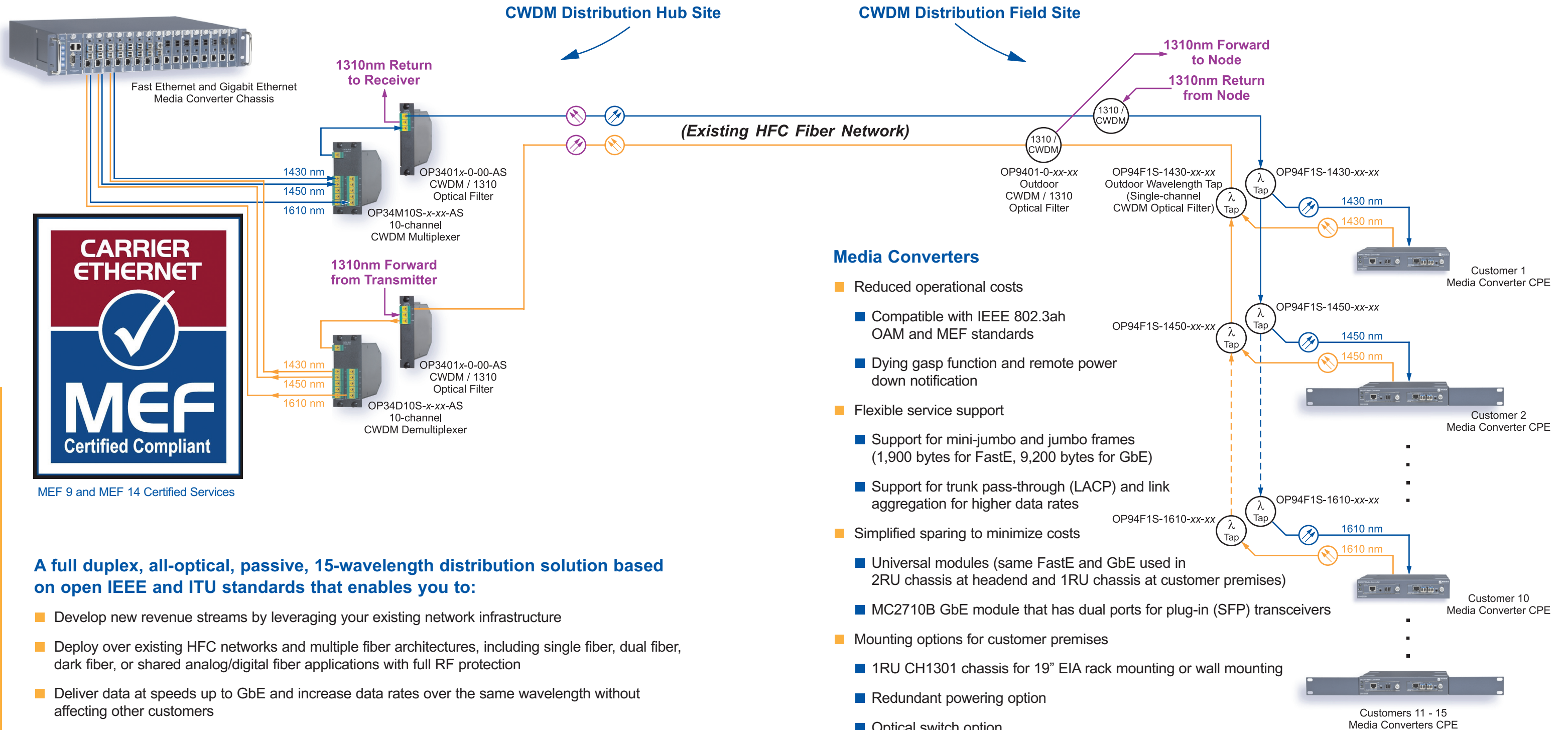
OP94g10-x-00-yy-zz A comparable set of 10-channel CWDM multiplexers (g = M) and demultiplexers (g = D) for 10 channels from 1430 to 1610 nm. Available in a ruggedized, unconnectorized package with 0.900 mm loose fiber (xx-yy = R1-00), a ruggedized, unconnectorized package with 2 mm fiber (xx-yy = R2-00), or a ruggedized package with 2 mm fiber and SC/APC connectors (xx-yy = R2-AS).



Aurora's CWDM Ethernet Access System



A whole new light, growing brighter!



MEF 9 and MEF 14 Certified Services

A full duplex, all-optical, passive, 15-wavelength distribution solution based on open IEEE and ITU standards that enables you to:

- Develop new revenue streams by leveraging your existing network infrastructure
- Deploy over existing HFC networks and multiple fiber architectures, including single fiber, dual fiber, dark fiber, or shared analog/digital fiber applications with full RF protection
- Deliver data at speeds up to GbE and increase data rates over the same wavelength without affecting other customers
- Eliminate data service interruption during system power outages with Aurora's passive optical system architecture
- Use Aurora's integrated management system for remote monitoring and control

Media Converters

- Reduced operational costs
 - Compatible with IEEE 802.3ah OAM and MEF standards
 - Dying gasp function and remote power down notification
- Flexible service support
 - Support for mini-jumbo and jumbo frames (1,900 bytes for FastE, 9,200 bytes for GbE)
 - Support for trunk pass-through (LACP) and link aggregation for higher data rates
- Simplified sparing to minimize costs
 - Universal modules (same FastE and GbE used in 2RU chassis at headend and 1RU chassis at customer premises)
 - MC2710B GbE module that has dual ports for plug-in (SFP) transceivers
- Mounting options for customer premises
 - 1RU CH1301 chassis for 19" EIA rack mounting or wall mounting
 - Redundant powering option
 - Optical switch option
 - Ability for each chassis to host two media converter modules
 - Innovative butterfly design (for high-density packaging of modules) permits two chassis to be mounted side-by-side