

Reduce Cooling Costs and Copper Cabling Congestion with Media Conversion

Plug & Play Universal Systems Gigabit Ethernet Media Conversion Module - 1000Base-T to 1000Base-SX

Transition Networks and Corning Cabling Systems have joined their industry leading media conversion and cabling products to form the answer to rising data center cooling costs and copper cable congestion.

The new Plug & Play Universal Systems Gigabit Ethernet media conversion modules offer the highest density copper-to-fiber media converter solution on the market today. Each electrical-to-optical (EO) module includes:

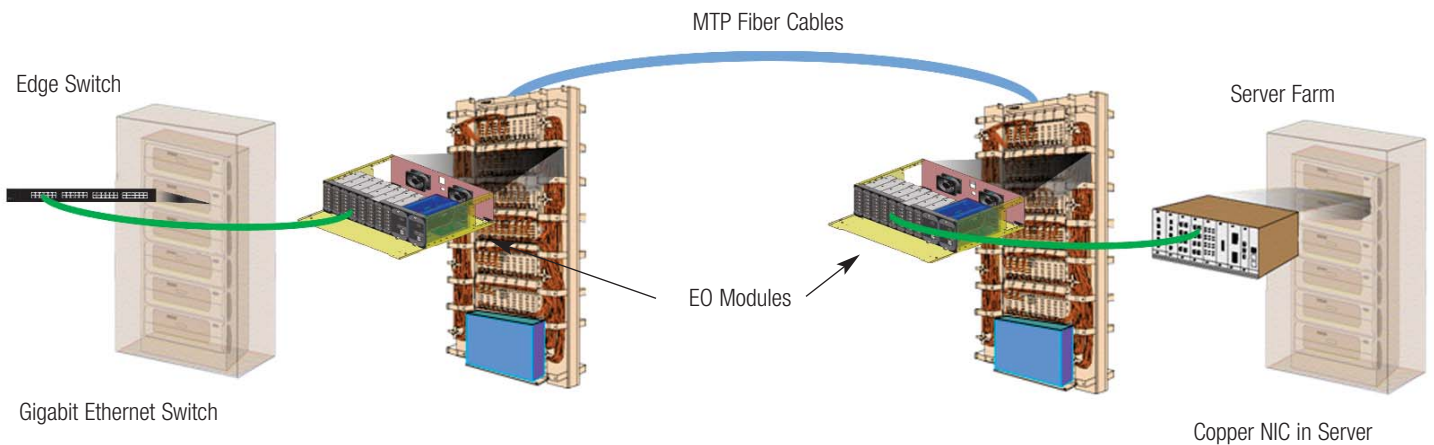
- 96-port density in a 4U housing
- (12) 1000Base-T RJ-45 ports on the front
- (2) 12-fiber MTP 1000Base-SX optical ports on the rear to extend transmission reach (up to 750m on 50/125um fiber when used back-to-back) while drastically reducing bulky copper cabling.

The modules compatibility with the Plug & Play™ Universal System, part of Corning's LANscape® Pretium™ Solution, offer virtually seamless integration into embedded fiber infrastructure.



- Reduce cooling costs
- Reduce copper-cabling congestion
- Realize benefits of fiber
- Save time on installation using Plug & Play fiber pre-terminated shelves
- Hot-swappable redundant power
- Link pass through link failure notification
- Modularity/scalability
- Simplified cable testing

24-fiber "Data Center" trunk cable OD: 5mm each Weight: 13lb/1000ft. 12 circuits @ 200ft: Area: 20mm ² Weight: 2.6lb		Cat 6 Cu Cable OD: 8mm each Weight: 47lb/1000ft. 12 circuits @ 200ft: Area: 315mm ² (16x) Weight: 56.4lb (24x)
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Ordering Information

Corning Cable Systems	Part Number Description
CCH-MCM12-RJ-70S	Media Converter Module fits in the 1U and 4UHousings, 1000BaseT (RJ-45) 100 m/328 ft to 1000BaseSX 850 nm multimode MTP Connector 50 im fiber 1000 m/328 ft, 12 modular EIA/TIA 568 RJ-45 ports on the front and 2EIA/TIA 604-5 Type MPO ports on the back, status LEDs: PWR (power); LK (link); overtemp, fan fault
PCH-04U-MM	4U Housing Solution accommodates up to 8 Media Converter Modules (96 RJ-45 ports); same footprint as Plug & Play™ Universal System components for an easy migration path to an all-optical networking, includes Power Cage, 2 power supplies, 2 power harnesses and Power Monitoring Module
PCH-04U-00	4U Housing Solution accomodates up to 8 Media Converter Modules (96 RJ-45 ports); same foot print as Plug & Play Universal System components for an easy migration path to an all-optical net working, includes Power Cage, 2 power supplies and 2 power harnesses
PCH-01U-00	1U Housing Solution accommodates up to 2 Media Converter Modules (96 RJ-45 ports); same footprint as Plug & Play Universal System components for an easy migration path to an all-optical networking, includes Power Cage, 2 power supplies and 2 power harnesses
PCH-01U-PWRS	01U Power Supply with dual redundant instant fail-over power supply; status LEDs: AC 100-240VAC, 47-63 Hz; status LEDs: PWR (power)

Specifications

Standards	IEEE Std 802.3™ - 2005
Fiber Optic Connector Specs Multimode	Min TX PWR: -7.5 dBm Max TX PWR: -2.0 dBm RX Sensitivity: -16.0 dBm Max In PWR: -2.0 dBm Link Budget: 8.5 dB
Status LEDs	Port 1 (TP): ON green = TP Link ON orange = unit is operating over temperature range Port 2 (TP): ON green = TP Link ON orange = No link but power is detected Port 4 (TP): ON green = TP Link ON orange = Fan Fault Port 3, 5-12 (TP): ON green = TP Link Port 1-12 (Fiber): ON green = Fiber Link
Dimensions	Width: 1.4" (36mm) Depth: 6.1" (155mm) Height: 6.1" (155mm)
Power Consumption	17 watts, 1.41A @ 12VDC
Maximum Packet Size	10KB
MTBF	36,063 hours [MIL- 217F2] 324,255 hours [Bellcore 7]
Environment	0 – 40°C operating; -15°C – 65°C storage; 5-95% humidity non-condensing; 0-10,000 feet altitude
Shipping Weight	2 lb. (0.9 kg)
Compliance	EN55024; CISPR22/EN55022 Class A; FCC Class A; CE Mark; UL60950

Media Conversion Advanced Features

- Auto Cross
- Link Pass Through link failure notification
- Copper & Fiber Auto-Negotiation
- Pause
- Automatic Link Restoration
- Hot-Swappable Redundant Power

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