



MC-3

Redefine what media converter can do

BRIEF

Infinicore™ new generation MC-3 Smart Media Converter is designed to meet the challenges of enabling up to 45 feet Direct Attached Copper (DAC) Cable support in a 10G media conversion environment. MC-3 is capable of synchronizing link status between two media segment and providing a powerful CLI for advanced cable diagnosis and management.

MC-3 Media Converter is powered by the innovative dual-chip data path architecture with ease to use USB based user interface. It is low power, feature rich and low end-to-end latency.

BENEFITS

- Small Form Factor; 2 Independent lossless Media Conversion Path
- Support up to 45 feet of Direct-Attached-Copper Cable
- USB based User Interface for control and visibility. Fully automated operation that works when powered on.
- Less than 300ns add on latency on optical path with line rate media conversion. Minimal impact to the networks and equipments.
- Multiple loopback modes; Automatic detection and correction of wiring pair swaps and polarity swaps
- PRBS31 BER Tester and Pattern Generator; Integrated 2x10G Ethernet Packet Generator

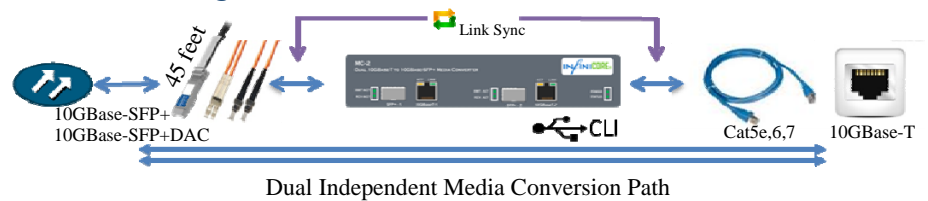
CONTACT US

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MC-3 Product Feature Highlights

Features	Benefits	MC-3	Others
Functional when Power On	Plug and Play	✓	✓
SFP+ Direct Attach Copper (DAC) Cable Support	Cost effective, widely used in enterprises and data centers	✓	✗
USB based CLI	Manageability	✓	✗
Loopback Support	Unit Testability	✓	✗
Cable Diagnosis and Distance to Fault Measurement	Fault Analysis; Speed up recovery	✓	✗
Link Status Synchronization	Support router path redundancy	✓	✗
Link Redundancy	For better network protection	✓	✗
PRBS31 BER Tester and Test Pattern Generator	Essential Tool for Network Reliability	✓	✗
Integrated 2x10Gbps Ethernet Packet Generator	Stress Test 10GBaseT, SFP+ and Network Devices	✓	✗

Functional Diagram



Infinicore MC-3 media converter is the next generation 10G media converter powered by an unique dual-PHY architecture. MC-3 provides a robust data path to support 10GBase-SFP+ DAC cable up to 45 feet. It is designed with a USB based CLI to provide complete visibility and control over the data path. MC-3 provides the best interoperability between 10GBase-SFP+ and 10GBase-T networks and protects investment and reduces CapEx.

Specification and Operating Conditions

- Dual 10GBase-SFP+ Fiber/SFP+ DAC Media Interfaces
- Dual 10GBase-T Media Interfaces supports Cat5e, 6 and 7
- IEEE 802.3 10Gb/s 10GBase-T Compliance with 802.3az Energy Efficient Ethernet support
- IEEE 802.3ap 10GBase-KR, compatible with XFI
- USB Based CLI, easy to use with complete visibility and control
- Capable of synchronizing link status between two media segments autonomously when enabled.
- AC 90-240V to 12V DC adapter.
- Operating Temperature 0-45 C; Humidity 5 to 95%
- Dimension (DxWxH) : 168 mm x 178 mm x 38 mm

Order Information

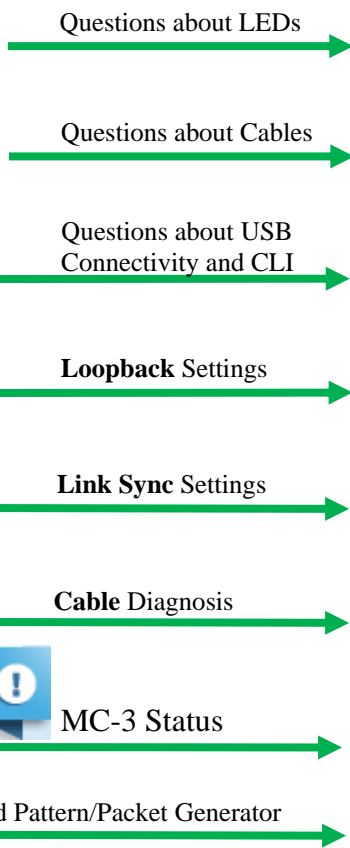
Infinicore Part Number	Description
MC-3-10G-T-SFP+	MC-3 Dual Port 10G Media Converter with USB CLI support





Smart 10GBase-T to 10GBase-SFP+ Media Converter-3

Documentation Map



- User Guide - Section 2.2
- User Guide - Section 2.1
- User Guide - Section 3.2
- User Guide - Section 4.2
CLI: **help loopback**
- User Guide - Section 4.7
CLI: **help linksync**
- User Guide - Section 4.6
CLI: **help cable**
- User Guide - Section 4.4
CLI: **show**
- User Guide - Section 4.8, 4.9



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MyMC3 Command# show

MC-3 Current Status Report

Channel 1 Status: UP

Fiber End Point: Present
Fiber Link Status: UP
SFP Module: Present
    SFP Vendor: Amphenol
    SFP P/N: 571540007
    SFP Serial: APF11190072BF8
    SFP Type: SFP+ 10000
Loopback: Disabled
10G-BaseT End Point: Present
Link Status: UP
Link Speed: 10Gbps
Cable Length: 40 meters (Accuracy: +-5m)
Link Role: Master
Loopback: Enabled
Link Sync: Enabled

Channel 2 Status: UP
    
```

- Overall Channel Status
- Fiber Optical Link Status
- SFP+ Fiber Module Information
- RJ45 10GBase T Link Status
- Cable Length Estimation
- Loopback Information
- Link Sync Status

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