

DELTA CLASS "twister"®

100Mbps media, speed and distance solutions

Next
Generation
"twister"



- *Copper-to-fiber media conversion*
- *2km, 20km, 40km and 100km distance support*
- *Auto-negotiation*
- *Remote Loopback, Far End Fault, and Link Loss Carry Forward for reduced cost of ownership*

Flexible Managed Solutions for Mixed-Media Networks

Sleek, compact, and rich in features, Metrobility's 100Mbps Delta Class "twister"® looks as impressive as it operates. Designed for desktop use in any modern office, the durable "twister" supports mixed media networks by enabling copper-to-fiber conversion to extend network distances.

On select models, bidirectional wavelength division multiplexing (BWDM) offers an interface that carries two separate channels in different directions through a single strand of fiber. BWDM eliminates the need to install a second fiber and effectively doubles the fiber capacity on existing fiber cables.

Unique Troubleshooting Features

Network technicians can now test the integrity of the entire fiber line using the remote loopback feature on the fiber port reducing cost and time. LED indicators for Far End Fault also show whether the remote fiber port is receiving a valid signal from the local unit.

When Link Loss Carry Forward (LLCF) is enabled, the ports do not transmit a link signal until they receive a link signal from the opposite port.

Unparalleled Operational Features

The Delta Class "twister" offers unparalleled performance over long distances - up to 100km - through retiming of the signal. Integral retiming reduces any jitter to ensure data integrity. The "twister" provides seamless operation in full and half duplex configurations.

Physical Features

The Delta Class has a sleek new design that incorporates a lightweight, impact resistant enclosure that is made of high durability, fade resistant engineered plastic. The unit is wall mountable and provides channels for cable and power cord management and cable protection. Link and activity LEDs are easily viewed on the top cover.

The unit meets all domestic and international EMI and EMC (static electricity) requirements and passes EN60950 safety and impact standards.

By utilizing state-of-art technology in both the electronics and the enclosure, Metrobility offers a cost-effective product in a rugged lightweight enclosure with superior feature advantages.

The Metrobility® Difference

Network troubleshooting features

- Link Loss Carry Forward (LLCF)
- Remote Loopback
- Far End Fault

Installation features

- Auto-negotiation of full and half duplex
- Auto-crossover
- Integral cable management and protection
- Superior noise immunity
- Wall mountable

Operational features

- Integral retiming (reduces jitter)
- Low power consumption
- Highly visible LED indicators

The Delta Class "twister" – the first converter product that is designed from today's customer's perspective, but with features to accommodate future needs.

Product Features:

- Auto-negotiation of full and half duplex on copper port
- Remote loopback, Far End Fault and Link Loss Carry Forward aids in troubleshooting a remote network connection for all fiber optic ports
- MDI-II to MDI-X switch eliminates the need for crossover cables on twisted-pair ports
- DIP switches allow selection of individual network modes
- Wall mountable
- Integral cable management and protection
- Convenient LED indicators located on the top for high visibility

Available Models

Model #	Port 1	Port 2	Max. Supported Segment Length	
			Port 1	Port 2
M133-13	100BASE-TX RJ-45	100BASE-FX multimode SC	100m	2km
M133-14	100BASE-TX RJ-45	100BASE-FX singlemode SC	100m	20km
M133-15	100BASE-TX RJ-45	100BASE-FX multimode ST	100m	2km
M133-16	100BASE-TX RJ-45	100BASE-FX singlemode ST	100m	20km
M133-17	100BASE-TX RJ-45	100BASE-FX singlemode SC	100m	40km
M133-1E	100BASE-TX RJ-45	100BASE-FX multimode MT-RJ	100m	2km
M133-1J	100BASE-TX RJ-45	100BASE-FX singlemode SC	100m	100km
M133-1K	100BASE-TX RJ-45	100BASE-FX multimode LC	100m	2km
M133-1M	100BASE-TX RJ-45	100BASE-FX singlemode LC	100m	20km
M133-1X	100BASE-TX RJ-45	100BASE-FX SM-SC / BWDM 1550nm/1310nm	100m	20km
M133-1Y	100BASE-TX RJ-45	100BASE-FX SM-SC / BWDM 1310nm/1550nm	100m	20km

Cable protection
(viewed from back)



Dual channels for cable management
(power and traffic)



Specifications

Environmental

Operating Temperature	0°C to 50°C
Operating Humidity	5% to 95% non-condensing
Storage Temperature	-25°C to 70°C

Dimensions

7"L x 3.75"W x 1.5"H
17.8cm x 9.5cm x 3.8cm

Weight (including power supply)

1.2 lb; .55 kg

Power, Universal

100-260V AC 50/60Hz

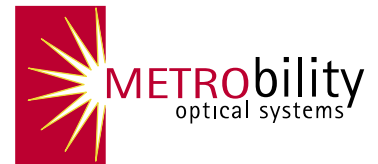
Standards Compliance

Compliance IEEE 802.3/IEEE 802.3u

Safety and EMC Compliance

UL, CE CSA, EN60950 (safety), FCC Part 15, Class A, EN55022 Class A (emissions), EN55024: 1998 (immunity), IEC 825-1 Classification, Class 1 Laser Product, DOC Class A (emissions)

Additional specifications including optical power and wavelengths may be found in the Delta Class "twister" User Manual.



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Metrobility Optical Systems is an innovative next generation optical networking company whose focus is on delivering optical access platforms and to harness the power of Ethernet and fiber optics to deliver superior network edge access, connectivity and wave-length multiplexing solutions.

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