# Pretium EDGE® Tap Module

A LANscape® Solutions Product

## features and benefits |

| | |
|---|---|
| **Integrates tap splitters directly into the structured cabling infrastructure** | Eliminates network downtime associated with changing monitored ports in a live system |
| **Rear-exiting, MTP®-based TAP ports do not require additional rack space** | Zero rack space impact results in higher revenue generation per rack unit; allows separation of live and tap ports into different cabinet locations |
| **Utilizes advanced splitter technology** | Maintains equal modal power distribution, reducing insertion loss for increased link reach |
| **Pretium EDGE-based footprint** | Integrates seamlessly into an existing Pretium EDGE Solutions infrastructure |
| **Universal polarity management** | Eliminates the frustration of needing to flip connector pairs or modules |

Pretium EDGE® Tap Modules, part of Pretium EDGE Solutions for data centers and storage area networks, enable passive optical tapping of the network while reducing downtime and link loss, and while increasing rack space utilization and density compared to other optical tap options.

Unlike other passive optical taps that must be added as a separate devices in the network link, the Pretium EDGE Tap Module integrates the coupler technology for passive optical tapping into a structured cabling component – the module. Monitored ports can be added without disrupting the system's live traffic, and the elimination of the tap as a separate device reduces insertion loss in the link.

Pretium EDGE Tap Modules use an advanced splitter technology for multimode to reduce insertion loss compared to traditional splitter technology.

Featuring the Pretium EDGE Solutions high-density module footprint, Pretium EDGE Tap Modules enable up to 72 monitored links per 1 rack unit, and they fit seamlessly into Pretium EDGE Solutions hardware for maximum cable management and better utilization of rack space.

**Pretium EDGE Tap Module** | Photo LAN3321



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## specifications |

| Fiber Type | Split Ratio Live/Tap | Part Number | Module Port Density | Attenuation Live/Tap MM-850 nm SM-1310 nm | MTP® Connector Insertion Loss | LC Insertion Loss | Polarity |
|---|---|---|---|---|---|---|---|
| OM4 | 50/50 | ETM-5B-Q | 6 | 3.8/3.8 | .35 dB | .15 dB | Universal |
| OM4 | 70/30 | ETM-7B-Q | 6 | 1.8/6.6 | .35 dB | .15 dB | Universal |
| OS2 | 50/50 | ETM-5B-G | 6 | 3.6/3.6 | .75 dB | .5 dB | Universal |
| OS2 | 70/30 | ETM-7B-G | 6 | 2.0/6.0 | .75 dB | .5 dB | Universal |

## ordering information |

| Part Number | Description |
|---|---|
| ETM-5B-Q | Pretium EDGE® Tap Module, OM4 50 micron multimode fiber, 50/50 split ratio (live/tap), 12-fiber LC duplex ports, one pinned MTP® adapter labeled LIVE, one pinned red MTP adapter labeled TAP |
| ETM-7B-Q | Pretium EDGE Tap Module, OM4 50 micron multimode fiber, 70/30 split ratio (live/tap), 12-fiber LC duplex ports, one pinned MTP adapter labeled LIVE, one pinned red MTP adapter labeled TAP |
| ETM-5B-G | Pretium EDGE Tap Module, OS2 single-mode fiber, 50/50 split ratio (live/tap), 12-fiber LC duplex ports, one pinned MTP adapter labeled LIVE, one pinned red MTP adapter labeled TAP |
| ETM-7B-G | Pretium EDGE Tap Module, OS2 single-mode fiber, 70/30 split ratio (live/tap), 12-fiber LC duplex ports, one pinned MTP adapter labeled LIVE, one pinned red MTP adapter labeled TAP |



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## Tap Module Harness

The Pretium EDGE Tap Harness is used to break out the 12-fiber MTP® tap port at the rear of the Pretium EDGE Tap Module into LC duplex connectors. These duplex connectors then can be easily separated into simplex connectors to plug into monitoring electronics.

The use of harnesses provides a solution that occupies less space than traditional jumpers, as the cable end of the harness is much smaller than the size of equivalent jumpers. This reduced cabling bulk improves airflow for increased cooling and facilitates easier moves, adds and changes (MACs).

**Pretium EDGE® Tap Harness** | Photo LAN802

## transmission performance |

| | OM4 50 Micron | OS2 Ultra-Bendable Single-mode |
|---|---|---|
| Fiber Code | Q | G |
| Wavelength (nm) | 850/1300 | 1310/1550 |
| Maximum Attenuation (dB/km) | 2.8/1.0 | 0.4/0.3 |
| Minimum Effective Modal Bandwidth (MHz•km) | 4700/ – | N/A |

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## ordering information |

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|1 |2 |3 |4 |5 |6

### |1

Select non-pinned MTP® Connector.

90 = OS2 single-mode
75 = OM4 50 µm multimode

### |2

Select the LC connector type.

05 = Multimode
04 = Single-mode

### |3

Select fiber type.

Q = OM4 50 µm multimode
G = OS2 single-mode

### |4

Select leg length in inches (leg OD is 2.0 mm).

J = 12 in (-0/+3 in) standard construction
K = 24 in (-0/+3 in)
L = 36 in (-0/+3 in),
M = 48 in (-0/+3 in)
N = 60 in (-0/+3 in)
P = 72 in (-0/+3 in)
Q = 79 in (-0/+3 in)
R = 98 in (-0/+3 in)

*See Note 1.*

### |5

Select overall harness length (overall length includes the breakout connector leg lengths).

002-300 meters or
006-999 feet

### |6

Select unit of measure.

M = Meters
F = Feet

*Note:*
*1) Furcation legs are color coded by fiber type:*
*T and Q = Aqua*
*G = Yellow*

**For additional information and part numbers for non-tap Pretium EDGE® Solutions components for your system, go to www.corning.com/cablesystems/pretiumedge.**

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