CORNING

EDGE8® Solutions TAP Module

What makes our EDGE8® TAP module the right solution for your data center requirements? Unlike other passive optical TAP solutions that must be added as separate devices in the network link, EDGE8 TAP modules integrate 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 insertion loss in the link is reduced by the integration of the passive optical tapping into the module. Infrastructure flexibility, speed of deployment, and network uptime are just a few of the benefits offered by our integrated and advanced design.

What exactly is port tapping?

Port tapping is a method of monitoring traffic being transmitted and received along a link in a network. This can be done passively with a device that simply passes through all data and sends it simultaneously to both its intended recipient and a monitoring device. The monitoring device filters the data and sends it to various software tools, where it is analyzed. It is then sent on to application layer software for use by network administrators.

What is network monitoring?

Network monitoring is the use of a system that constantly monitors a network for performance, usage, failing components and outside threats, and notifies you in case of potential issues.

Why network monitoring?

Essential to ensuring the success of your network system, network monitoring can automatically detect and respond to threats and performance issues. You can monitor for:

- Security threats
- Performance issues
- Network usage (overload)
- Optimization (input/output bottlenecks)
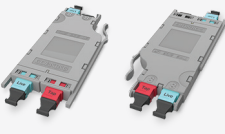- Troubleshooting
- Regulations compliance (SEC, HIPAA)

Key features

- Passive, purely optical splitters that don't require power or configuration.
- Make copies of all data in real time, with no traffic delays and without burdening the live network.
- Low-cost, highly reliable way to provide data nonintrusively to network tools for multiple generations of optics.
- Since TAPs are part of the structured cabling, they allow you to retain use of ports on network switches.
- TAPs aren't part of the network, so they're secure and reliable (can't be hacked).

Which EDGE8® TAP module works best for you?

Our TAP modules use passive splitting to transmit inline traffic to an attached monitoring device without data stream interference. We offer a variety of design options, based on your network's unique needs. The modules are available in multiple configurations, including MTP®-to-LC, LC-to-LC for today's 10G networks, and MTP-to-MTP for port monitoring of 40G networks.

Configurations*

TAP Module Configurations		
Configuration	**Description**	**When to Deploy**
 A	Nonintegrated solution that sits outside the structured cabling	▪ When LC-based structured cabling has been deployed and there is no MTP integration ▪ Desire only a few ports being tapped ▪ Used for temporary monitoring application
 B	MTP-based integration into structured cabling	▪ Eliminates the use of extra rack space for tapping ▪ Maximizes channel reach by reducing number of components/loss ▪ Can be used where separation of network and security/compliance functions is desired ▪ Uses jumpers to interface with device (switch/storage) and utilizes a harness for the TAP port
 C	MTP-based integration into structured cabling	▪ Eliminates the use of extra rack space for tapping ▪ Maximizes channel reach by reducing number of components/loss ▪ Uses jumpers to interface with device (switch/storage) and utilizes a harness for the TAP port ▪ SR4 parallel optic transmission TAP application

*Split ratio is the proportional share of light where the first number is designated as the network percentage and the second number is the monitor percentage. Each configuration above is available in: 50/50, 70/30, or 80/20. 90/10 is also available for configurations for single-mode fiber types.

Benefits

- Integrated rear TAP ports mean no extra rack space is needed.
- Integrated TAP module lets you add and remove tapped ports without disrupting the live network and removes two LC connections from the live network link.
- High-performance multimode splitters reduce thin-film splitter loss, allowing for extended reach.
- MTP-based TAP port lets you separate live and TAP ports into different cabinet locations.
- Universal polarity management allows for duplex polarity management when paired with universal module.
- EDGE™/EDGE8®-based footprint integrates seamlessly into existing EDGE/EDGE8 infrastructures.