CORNING

How are you guarding your network?

Corning TAP modules make it easier to detect external threats.

What makes our EDGE™ or EDGE8® TAP modules the right solution for your network requirements? Unlike other passive optical TAP solutions that must be added as separate layers in the network link, Corning 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 integrating 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 advanced, integrated design.

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. It also notifies you of potential issues.

Why does it matter?

By using a network monitoring system to continuously optimize and troubleshoot your network, you can reduce security threats, performance issues, network overload, and profit-draining system failures while staying in compliance with SEC and HIPAA regulations. The costs of not monitoring your network can include:

- **Economic**: Theft of intellectual property and corporate information, disruption in trading, and resources spent repairing damaged systems

- **Reputational**: Loss of consumer trust, loss of current and future customers to competitors, and negative media coverage

- **Regulatory**: Fines or sanctions based on General Data Protection Regulations (GDPR) and other data breach laws

Real-world impact

Industry	Software provider
Incident	Encrypted customer credit card records and logins hacked
Impact	~160 million records
Cost	$1.2 million in legal fees and settlements
Industry	Reporting agency
Incident	Breach of social security numbers, birth dates, addresses, etc.
Impact	~155 million records
Cost	$1.2 billion to resolve consumer claims

How does port tapping work?

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 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 an application layer software for use by network administrators.
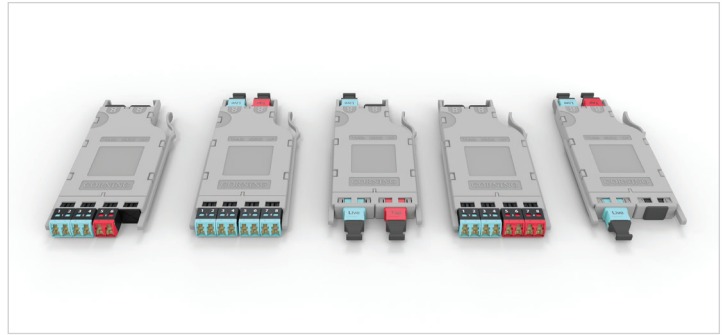
Corning offers three TAP module configurations:

Configuration A is a nonintegrated LC TAP module with all LC ports at the front of the module that requires a separate housing from your structured cabling system.

Configuration B is an integrated MTP® to LC TAP module. They can be used for duplex and BiDi (EDGE™ systems only) transmissions and fit seamlessly into your structured cabling system.

Configuration C is an integrated MTP to MTP TAP module. They can be used for duplex or parallel transmissions and fit seamlessly into your structured cabling solution.

Corning offers engineering support through system designs to ensure the proper TAP configuration

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Benefits of Corning's TAP Modules

- **Integrated rear TAP ports mean no extra rack space is needed.**
- Integrated TAP module lets you add and disconnect 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.**
- EDGE/EDGE8®-based footprint integrates seamlessly into existing EDGE/EDGE8 infrastructures.

Available in:

- 12 or 8 fibers
- LC or MTP
- Custom polarity
- Scalable to future speeds

Customer Case Study

Challenge   Data Center operator came to us requesting the ability to TAP and also needed to switch from a Base-12 to a Base-8 solution

Result   Our engineering team was able to develop an MTP panel that transitioned from 2 x 12 F to 3 x 8 F while also tapping with a Base-8 solution coming out

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