Enterprise
Mission Critical Assurance
Making Your Network a Competitive Advantage
As a 25-year trusted enterprise partner, Transition Networks builds on strong industry relationships and world class networking products to provide customized, scalable, energy efficient, optical solutions aimed at securing communications while assuring increased return on investment from critical network assets.

Transition Networks’ Difference

Transition Networks is an industry leader with over 25 years experience designing fiber integration products which affordably deliver the security and reliability today’s valuable data networks demand. With unparalleled experience serving the unique needs of our enterprise customers, world-class 24/7 support, and a product Lifetime Warranty, Transition Networks is the choice for cost-effective Enterprise level fiber integration needs.

Regardless of the market segment, all businesses require networking solutions that will improve network performance, reduce operational expenses, and give them a competitive edge. Even though these are common goals, each business unit has specific needs as well: from Fiber-to-the-Desk applications for financial institutions to security and surveillance applications for intelligent buildings to Big Data and Bring Your Own Device (BYOD) initiatives supported within the datacenter. In all of these scenarios, Transition Networks offers the ability to affordably integrate the benefits of fiber optics into any data network – in any application – in any environment.

At Transition Networks we strive to help our customers identify products to solve today’s problems while future-proofing for tomorrow as well. Our consultative approach enables us to better understand your unique requirements and provide customized solutions to fit your needs. We understand that enterprises need a partner they can trust globally with their needs. We understand that enterprises need a partner they can trust globally with their needs.

Transition Networks is here to help protect that investment.

Transition Networks Advantages

- A 25-year trusted hardware partner
- Turnkey solutions for a variety of applications
- Experts in fiber integration
- Strong understanding of customer’s challenges and applications
- Financially stable company founded in 1987
- Outstanding customer and technical support
- 24 x 7 x 365
- ISO 9001 and 14001 certified
- Unsurpassed Lifetime Warranty on Transition Networks products
- Global Sales Force
- Support for 10/100/1000 Ethernet based solutions as well as TDM and other communications protocols (T1/E1, 13/E3/563, POTS, E&M, OCx, Fibre Channel, RS232/422/485, V.35, X.21)

Applications:

- Campus LAN Deployments ............ 3
- Corporate Education
- Data Center and Cloud Assurance ....... 5
- Physical Security and Intelligent Buildings ............. 7
- Fiber to the Desk (FTTD) ............... 9
- Retail ..................................... 11
- Healthcare ................................ 12

Transition Networks is the choice for cost-effective Enterprise level fiber integration needs.

Regardles of the market segment, all businesses require networking solutions that will improve network performance, reduce operational expenses, and give them a competitive edge. Even though these are common goals, each business unit has specific needs as well: from Fiber-to-the-Desk applications for financial institutions to security and surveillance applications for intelligent buildings to Big Data and Bring Your Own Device (BYOD) initiatives supported within the datacenter. In all of these scenarios, Transition Networks offers the ability to affordably integrate the benefits of fiber optics into any data network – in any application – in any environment.
Campus LAN Deployments

Copper to Fiber Conversion
Increase ROI by Harnessing the Benefits of an Optical Network

The demands on today's voice and data networks are perpetually on the rise. Whether it's adding new users and supporting Bring Your Own Device (BYOD) initiatives or enabling new functionality like processing Big Data, an organization's network performance requirements often outpace the current cabling infrastructure. With virtually unlimited bandwidth, fiber optic cabling can alleviate the expense of cable plant upgrades that come with the adoption of new technologies, by providing a more future-proof solution. Fiber offers additional benefits over UTP including, the ability to transmit greater distances and isolate data from sources of noise and interference, while providing increased security benefits.

However, fiber integration is not as simple as replacing cabling, often high costs can occur from replacing copper-based equipment with more expensive fiber equivalents. To reduce the expense of integrating fiber optics, Transition Networks' media converters, supporting network speeds up to 10Gbps, can be used to establish links between new fiber cabling and existing copper-based network devices by allowing users to connect fiber to ports on their current legacy switches and routers. Even new fiber interfacing devices may not support the fiber type or transmission distance needed for a particular application, requiring the use of Transition Networks' media converters to interface between different cabling technologies.

Network Extension via Fiber
Reduce Network Cabling Distance Limitations by Integrating Fiber Optics

Campus Networks are made up of a group of buildings that are networked together over a large geographic area. Due to the size of these network deployments, the integration of fiber is often a necessity. Introducing fiber connectivity into the Campus Network will allow your network to grow and include remote buildings and users. Whether cost concerns or pre-existing legacy equipment, going to an all-fiber network may not be the best choice for a business or school. So, whether you're connecting the copper ports on your core enterprise switches or connecting the fiber in your vertical risers to your horizontal cabling, Transition Networks' copper to fiber media conversion products can relieve the distance limitations of copper without replacing existing infrastructure.

In many instances the use of a switch to repeat and refine the data signal may not be the most favorable solution. Adding Transition Networks' conversion products into your network allows businesses to maintain a transparent, physical layer, pass-through connection, while still integrating fiber to overcome the inherent distance limitations of copper cabling. The use of media conversion to extend network transmission distances gives organizations the reassurance that their data is NOT passing through additional switches, guaranteeing no added latency, no jitter, no packet inspections and no potential data traffic sniffing.

Fiber Conservation
Increase Capacity on Existing Fiber Optic Infrastructure

Users of today's voice, video, and data networks are becoming more complex – requiring more bandwidth and faster transmission rates over ever increasing distances. To meet these demands, network managers are relying more on fiber optics, but the reality faced by many organizations and school districts is that laying more fiber is not always an economical or feasible option once the current fiber infrastructure has been exhausted. In order to increase capacity on existing fiber infrastructure, many organizations are turning to Wave Division Multiplexing (WDM) technologies.

Transition Networks' Bi-directional Wave Division Multiplexing (BWDM) products offer great cost savings by allowing network managers to double the capacity of existing fiber routes, with little to no changes to the general network design. Coarse Wavelength Division Multiplexing (CWDM) products by Transition Networks allow multiple optical signals on a single fiber optic link by using different wavelengths of light in order to carry the different signals, offering a multiplexing effect of up to 16 times the capacity of the existing fiber infrastructure. Transition Networks' WDM products allow for the scaling of your project to fit your exact needs easily and affordably.

Product Features
- Introduce fiber into copper rich environments
- Transparent pass traffic including VLANs, alarms, and traps for quick fault detection
- Plug-n-Play installation
- AutoCross
- Automatic Link Restoration
- Link Pass Through
- Supports networking protocols up to 10Gbps

Fiber Conservation
Increase Capacity on Existing Fiber Optic Infrastructure

Users of today's voice, video, and data networks are becoming more complex – requiring more bandwidth and faster transmission rates over ever increasing distances. To meet these demands, network managers are relying more on fiber optics, but the reality faced by many organizations and school districts is that laying more fiber is not always an economical or feasible option once the current fiber infrastructure has been exhausted. In order to increase capacity on existing fiber infrastructure, many organizations are turning to Wave Division Multiplexing (WDM) technologies.

Transition Networks' Bi-directional Wave Division Multiplexing (BWDM) products offer great cost savings by allowing network managers to double the capacity of existing fiber routes, with little to no changes to the general network design. Coarse Wavelength Division Multiplexing (CWDM) products by Transition Networks allow multiple optical signals on a single fiber optic link by using different wavelengths of light in order to carry the different signals, offering a multiplexing effect of up to 16 times the capacity of the existing fiber infrastructure. Transition Networks' WDM products allow for the scaling of your project to fit your exact needs easily and affordably.

Product Features
- Bandwidth multiplexing up to 16 times the current fiber infrastructure
- Passive monitor – no power source needed
- Multiple protocols supported
- Requires little to no change of network design
- Inexpensive solution
Whether utilizing a private cloud infrastructure or the public cloud, countless enterprise data center managers are utilizing cloud computing to off-load the expense and infrastructure drain associated with internally housing and storing critical business applications on their own servers. Data center managers that are utilizing virtualized datacenters to deliver their IT services are realizing the tremendous cost savings associated with moving to the cloud, including: decreased cooling costs, power consumption, hardware investment, server maintenance and the ability to only pay for what storage or service is being used. But moving applications to the cloud does not mean that data center managers no longer need to be concerned about delivering that service or data stream. Data center managers still need to have processes and plans in place to address the reliability and resiliency of their cloud network, like: network growth strategies, data security measures, data recovery and redundancy strategies as well as assurance that they are getting the full extent of the cloud services they are paying for. Network interface devices from Transition Networks provide data center managers with visibility to the entire cloud – from their network, across the WAN, to their cage within the cloud provider’s datacenter.

Product Features

- Central chassis for remote management and fault detection
- Configure via dip switches or management module
- Transparency pass customer traffic including VLANs
- Alarms and traps for quick fault detection
- Plug-n-Play installation
- Auto Cross
- Automatic Link Restoration

Cloud Assurance

Data Center Virtualization Reduces IT Expense, but Introduces New Variations of Old Concerns

Whether utilizing a private cloud infrastructure or the public cloud, countless enterprise data center managers are utilizing cloud computing to off-load the expense and infrastructure drain associated with internally housing and storing critical business applications on their own servers. Data center managers that are utilizing virtualized datacenters to deliver their IT services are realizing the tremendous cost savings associated with moving to the cloud, including: decreased cooling costs, power consumption, hardware investment, server maintenance and the ability to only pay for what storage or service is being used. But moving applications to the cloud does not mean that data center managers no longer need to be concerned about delivering that service or data stream. Data center managers still need to have processes and plans in place to address the reliability and resiliency of their cloud network, like: network growth strategies, data security measures, data recovery and redundancy strategies as well as assurance that they are getting the full extent of the cloud services they are paying for. Network interface devices from Transition Networks provide data center managers with visibility to the entire cloud – from their network, across the WAN, to their cage within the cloud provider’s datacenter.

Product Features

- QoS
- ITU G.8231/G.8232
- IEEE1588v1, v2
- IEEE802.3ad
- Auto Cross
- Automatic Link Restoration
- Jumbo Frame Support
- Extended Operating Temperatures
- Redundant, hot-swappable power supplies
- SSL/SSH
- Radius, TACACS+ and ACL
- Management VLAN
- Extended Operating Temperature
**Physical Security, Outdoor Surveillance and Intelligent Buildings**

**Physical Security**

Along with the general proliferation of fiber into security-based networks, there has also been a changing of the guard with network cameras as analog cameras are being replaced by IP network cameras. Not only does the IP camera offer the ability to be checked remotely from anywhere, but most IP cameras also support Power-over-Ethernet (PoE) technology. PoE makes the installation of cameras, access controls, and other powered devices easier since the piece of equipment can be powered over the same UTP cable being used to transmit the data signal. PoE switches, PoE media converters, and PoE injectors are all available from Transition Networks to create the functional network needed in today's diverse physical security and surveillance applications.

**Outdoor Surveillance**

Transition Networks offers a wide selection of PoE and PoE Plus media converters and switches for deploying IP cameras in non-temperature controlled environments. Our line of hardened industrial gear with extended operating temperature ranges are ideal for those situations where a remote camera needs to be placed in an enclosure along a highway or in a parking area. In addition to a robust, extended operating range – Transition Networks’ industrial rated converters and switches offer the ability for fiber integration, which is so important to outdoor surveillance networks, due to the restrictions and transmission distance limitations of a UTP or coax cable infrastructure.

**Intelligent Buildings**

Inter-building control systems have advanced beyond independent networks responsible for monitoring lighting, HVAC, fire alarms, access control, and energy consumption. Today’s intelligent buildings are converging all of these capabilities over the same IP network that voice, data, and video traffic is being passed. The convergence of building systems and the introduction of IP to these traditionally non-Ethernet networks has brought with it many efficiencies and capabilities that were not realized even 5 years ago. Innovations such as Power-over-Ethernet (PoE) powering: LED lighting, HVAC controllers, thermostats and biometric scanners all over Ethernet networks are now currently available – with new IP based end-devices being continually developed and released. With such rapid development and innovation taking place, future proofing the current network to harness these capabilities becomes a primary concern. So the integration of fiber optics and Ethernet protocol will be a necessity for this latest proliferation of converged networks needed to support intelligent buildings.

**The Integration of Security Technology, Building Systems and Energy Management with the Goal of Increasing Efficiencies While Minimizing our Carbon Footprint**

From theft prevention, to protecting intellectual property, to managing energy usage, the demand for security/surveillance/intelligent building networks has increased dramatically over the past decade. Not only have the number of these converged networks increased, but so have their geographic size. For these networks to continue increasing their area of surveillance and monitoring, fiber optic cable is being introduced to overcome the distance limitations of copper-based networks while offering more design options and green alternatives.

---

**Product Features**

- IEEE802.3af Power-over-Ethernet compatible
- IEEE802.3at Power-over-Ethernet Plus compatible
- 48VDC PSE Output Voltage
- Over-current protection and under-current detection
- Minimum load sensing
- Add PoE functionality on a port-by-port basis

- Operating Temperature Range of -40°C to 75°C
- IEEE802.3af Power-over-Ethernet compatible
- IEEE802.3at Power-over-Ethernet Plus compatible
- 48VDC PSE Output Voltage
- Improved reliability and transmission performance
- Reduces video quality issues common with UTP and coax
Fiber to the Desk (FTTD)

New FTTD Deployments

Fiber NIC cards by Transition Networks allow for a simple integration path wherever fiber is available at the desktop. With a line of Fast Ethernet and Gigabit Ethernet NICs, users will gain the benefits associated with deploying fiber optic cabling within the LAN environment, including expanded bandwidth capacity and increased data security.

Transition Networks also offers PCI-Express (PCIe) supported NICs to maximize bandwidth and bus efficiency while lowering power consumption on desktops. As well, ExpressCard and PCMCIA adapters cards for delivering fiber optic connectivity to any laptop.

Fiber NIC cards by Transition Networks allow for a fiber interface needed.

NIC Cards
- Fast Ethernet
- Gigabit Ethernet
- Fast Ethernet ExpressCard
- Gigabit Ethernet PCIe

Product Features
- Available for Fast Ethernet and Gigabit Ethernet
- Includes both standard and low profile mounting brackets
- Options for supporting PCIe, PCIX, PCIe, PCMCIA, and ExpressCard
- Supports Wake-on-LAN (WOL)
- Supports PCIe Remotes (RoF)
- Software drivers available to many common operating systems, includes Microsoft certified drivers

FTTD Deployments in Legacy Network Infrastructure

Extend the life cycle of the network equipment you already have by delivering low cost, fiber optic connectivity directly to your desktop without having to replace your existing legacy copper NIC card. PCI powered media converters from Transition Networks are designed to install directly inside a workstation or file server and mount in any standard PCI slot. No hardware configuration or software driver installation is required. After connecting the copper port to the existing copper NIC, the PCI powered media converter provides the fiber interface needed.

Media Converters
- PCI Powered

Product Features
- No need to replace existing NICs
- Drains power directly from PCI slot, no power supply needed
- Easily installed inside a PCI or file server, no configuration required
- More secure than a desktop media converter and less time consuming than installing a new NIC
- Since power is drawn from PCI slot, no additional CPU resources are utilized

FTTD Deployments in Legacy Network Infrastructure

Network managers can eliminate bandwidth bottlenecks at aggregation points within their network by utilizing fiber switches. Transition Networks offers flexible, cost effective distribution switches that support 100/1000Mbps fiber as well as 10/100/1000Base-T copper connections for high performance fiber access and workgroup backbone applications.

Network Connectivity

Transition Networks also offers SFPs/SFP+ ports that allow for a single piece of network equipment to be connected to a multitude of interfaces, protocols, and transmission media via the SFP/SFP+/XFP port. Small form factor pluggables offer a cost-effective and flexible means to accommodate for network modifications and fiber integration while utilizing existing network devices.

VoIP Deployments

A common challenge for FTTD deployments is that typical IP phones and workstations are only equipped with RJ-45 copper connections. Additionally, if there is a link loss in a VoIP environment, IP phones lose connectivity to the Call Manager® and need to be rebooted.

Transition Networks’ Gigabit VoIP Media Converters allow network managers to fiber enable P phones and desktops over the same gigabit backbone, reduce power consumption using Power-over-Ethernet (PoE), and connect their workstation via fiber. Equipped with Power Sourcing Equipment Link Pass Through (PSE/LPT), Transition Networks’ VoIP Media Converters will automatically reboot IP phones if there is a loss of copper link — saving corporations money on service calls while ensuring 99.999% uptime for your critical applications.

VoIP Media Converters
- 1/10K

Product Features
- 1/10/100 or 10/100/1000 versions available
- IEEE 802.3af and 802.3at Power-over-Ethernet is supported
- 4W/8W PSE Output Ratings
- Power device installed after link loss
- Over-Current Protection and under-current detection
- Minimum load sensing

Managed All Fiber Switches
- 10G-100G

Accessories
- Adapters
- Wires

Switches
- 10G/40G/100G
- 10G/40G/100G
- 48VDC PSE Output Voltage
- IEEE 802.3af and 802.3at Power-over-Ethernet is supported
- 4W/8W PSE Output Ratings
- Power device installed after link loss
- Over-Current Protection and under-current detection
- Minimum load sensing

Transition Networks: New FTTD Deployments

Network managers can eliminate bandwidth bottlenecks at aggregation points within their network by utilizing fiber switches. Transition Networks offers flexible, cost effective distribution switches that support 100/1000Mbps fiber as well as 10/100/1000Base-T copper connections for high performance fiber access and workgroup backbone applications.

Transition Networks also offers SFPs/SFP+ ports that allow for a single piece of network equipment to be connected to a multitude of interfaces, protocols, and transmission media via the SFP/SFP+/XFP port. Small form factor pluggables offer a cost-effective and flexible means to accommodate for network modifications and fiber integration while utilizing existing network devices.

Product Features
- Supports 10/100/1000 or 10G Base-LX SFP+ modules
- 48VDC PSE Output Voltage
- IEEE 802.3af and 802.3at Power-over-Ethernet is supported
- 4W/8W PSE Output Ratings
- Power device installed after link loss
- Over-Current Protection and under-current detection
- Minimum load sensing

FTTD via Fiber NIC

Shared Channel -Option 1

Shared Channel -Option 2

Dedicated Channels

FTTD via Fiber Switch

FTTD via Media Converter

Fiber Enable IP Phones and Desktop Workstations

Many financial and corporate institutions are using fiber optics at the desk (FTTD) to increase network speed, bandwidth, and efficiency, while simultaneously reducing the risk of security breaches due to emissions given off by unshielded copper cabling. Transition Networks offers a wide range of copper-to-fiber conversion products, network interface cards (NICs), and Ethernet switches for integrating fiber optic cabling into areas with copper based equipment in FTTD and voice-over-IP (VoIP) deployments.
Retail

The retail networks of today are processing more data and completing more transactions than ever before. In today’s competitive landscape, business intelligence has evolved past analyzing last month’s sales numbers to accurately forecast what needs to be on hand moving forward. The successful retail giants of today have robust, intricate networks for measuring and analyzing every customer interaction and every step needed to get products through their supply chain - with the ultimate goal of being able to provide the right product at the right time for a reasonable price. Companies are also using the data drawn from customer purchasing history to push recommendations, product ads and incentives out to potential clients via smart phones and other mobile devices. Brick and mortar storefronts also need to address how they will address security, surveillance and theft prevention concerns. Transition Networks delivers the industry-leading, robust and reliable network solutions that businesses demand in order to handle the massive amounts of consumer data, business transactions and mission critical processes their networks must handle seamlessly. Transition Networks offers everything retailers need to ensure bottom line savings including a lifetime warranty, multi-protocol support, and a wide variety of products and form factors.

Healthcare

As healthcare and medical technology have advanced over the past century, so have patient care expectations. For hospitals and healthcare providers, maintaining the security and storage of confidential patient records is just as important as having a robust, resilient network that is able to easily access large digital files for informed decision making in time-sensitive situations. Whether it’s accessing patient files and test results, supporting video conferencing sessions, or delivering VoIP telephony, network downtime is not an option, when it could yield a potentially life-threatening event.

Due to the physical size of most healthcare facilities, the bandwidth required to store & send large digital files and the mission-critical nature of their business - the integration of fiber is a necessity for the majority of hospital networks. As the fiber integration specialists, Transition Networks offers everything that healthcare provider networks demand to ensure a high-performance, security-rich, and future-proof solution for linking all critical nodes within their network deployments.
## Product Overview

### Media Conversion
- ION219-A | IONMM | E-100BFX-FX-05 | C3110 | x2220 | x3230

- Central chassis for remote management and fault detection
- Configure via dip switches or management module
- Plug-n-Play installation
- AutoCross
- Automatic Link Restoration

### PoE Media Converters
- SGPOE10xx-1xx
- SGPAT10xx-1xx
- SPOEB10xx-1xx

- 10/100 or 10/100/1000 versions available
- IEEE802.3af Power-over-Ethernet compatible
- 48VDC PSE Output Voltage
- Power device restart after link loss
- Over-Current Protection and under-current detection
- Minimum load sensing

### Ethernet NIDS
- S3280 | S3230

- Ethernet OAM support including IEEE 802.3ah, IEEE 802.1ag, and ITU G.7041
- IEEE 802.1Q Quality of Service (QoS)
- IEEE 802.1D VLANs including C-Tag / S-Tag
- Advanced security features: SSL, SSH, Multi-layer Access Control Lists (ACL), RADIUS, TACACS+, Management VLANs
- Extended operating temperature range
- Triple power inputs for redundancy and uptime
- Advanced timing IEEE 1588v2 and SyncE
- Sub-50ms Ring Protection: ITU G.8031/8032, STP, RSTP, MSTP
- MEF CE 1.0 (9, 14 and 21) and MEF CE 2.0 certified

### CWDM
- CWDM-xxxxxxxR | CWDM Accessories: X2, XFP, SFP+, SFP

- Realize multiplication up to 16 times current fiber infrastructure
- Requires little to no changes to network design
- Multiple protocols and network speeds supported
- Completely passive solution
- Layer-One connectivity and plug-and-play provisioning
- Modular design allows for pay-as-you-grow expansion

### SFPs
- X2 | XFP | SFP+ | SFP

- Hot-swappable SFP Footprint
- Class 1 Laser International Safety
- Standard IEEE-802.3 Compliant
- Compatible with SFP Multi-Sourcing Agreement (MSA)

### Fiber NICs
- N-FX-xx-03 | N-GxX-xx-02 | N-FXE-xx-02 | N-GXE-xx-02

- Available for Fast Ethernet and Gigabit Ethernet
- Includes both standard and low profile mounting brackets
- Options for supporting PCI, PCI-X, PCMCIA and ExpressCard
- Supports Wake-on-LAN (WOL)
- Supports PCIe Remote Boot
- Software drivers available to many common operating systems, includes Microsoft certified drivers

### Fiber Switches
- MIL-SM8DPA | SM24DPA

- Jumbo Frames up to 9KB
- QoS
- TACACS+ and SSH/SSL
- Spanning Tree
- IGMP and DHCP Snooping
- SNMP V1, V2, V3

### PoE Switches
- MIL-SM8TXAF2GPA | MIL-SM24TA4GPA

- IEEE802.3at Power-over-Ethernet compatible
- IEEE802.3bt Power-over-Ethernet Plus compatible
- 48VDC PSE Output Voltage
- Over-Current Protection and under-current detection
- Minimum load sensing
- Add PoE functionality on a port-by-port basis

### Industrial Switches
- SISGM1040-2xx-LRT | SISTG10xx-2xx-LRT

- Multiple fiber optic interfaces to support ring architectures
- Full management features including support for redundant rings, VLANs, QoS, etc.
- Supports both IPv4 and IPv6

### Industrial PoE Switches
- SISPM1040-xxx-LRT | SISTP10xx-xxx-LRT

- Rugged hardware performance for harsh environments and outdoor enclosures where PoE Plus is needed
- Highly flexible for a variety of PoE Plus applications, like surveillance cameras and wireless access points
- Offers advanced Ethernet management, redundancy, availability and network security features

### Fiber NICs

- S3280 | S3230

- Ethernet OAM support including IEEE 802.3ah, IEEE 802.1ag, and ITU G.7041
- IEEE 802.1Q Quality of Service (QoS)
- IEEE 802.1D VLANs including C-Tag / S-Tag
- Advanced security features: SSL, SSH, Multi-layer Access Control Lists (ACL), RADIUS, TACACS+, Management VLANs
- Extended operating temperature range
- Triple power inputs for redundancy and uptime
- Advanced timing IEEE 1588v2 and SyncE
- Sub-50ms Ring Protection: ITU G.8031/8032, STP, RSTP, MSTP
- MEF CE 1.0 (9, 14 and 21) and MEF CE 2.0 certified

### CWDM

- CWDM-xxxxxxxR | CWDM Accessories: X2, XFP, SFP+, SFP

- Realize multiplication up to 16 times current fiber infrastructure
- Requires little to no changes to network design
- Multiple protocols and network speeds supported
- Completely passive solution
- Layer-One connectivity and plug-and-play provisioning
- Modular design allows for pay-as-you-grow expansion

### SFPs

- X2 | XFP | SFP+ | SFP

- Hot-swappable SFP Footprint
- Class 1 Laser International Safety
- Standard IEEE-802.3 Compliant
- Compatible with SFP Multi-Sourcing Agreement (MSA)