CommScope EPON
The End-to-End PON Solution
With high capacity optical line terminals and high-speed optical network units, 1GE and 10GE EPON are now commonplace. While many companies can sell you EPON components, only a select few possess the experience and resources to create a seamless end-to-end solution. One company has earned the reputation as a trusted advisor around the world – CommScope.

With the CommScope EPON portfolio, you not only get state-of-the-art, reliable PON components; you get the connectivity solutions, scalability, expertise and peace of mind that CommScope can provide.

CommScope EPON—The End-to-End PON Solution

Higher revenues for you – More services for your customers.

CommScope EPON systems provide a scalable and upgradable solution designed to increase revenue, minimize first-installed costs and reduce OpEx, while putting the power of PON to work for you. Developed and supported by the connectivity experts at CommScope, EPON is an end-to-end PON solution that gives you the increased revenue, bandwidth and options you need while delivering the seamless quality of service your subscribers expect.

CommScope EPON solutions are ideal for MSOs and telcos as well as utilities, municipalities and government agencies. Application environments include:

- Residential FTtx
- Access Networks for Commercial Accounts
- Multiple Dwelling Units (MDUs)
- Low-density and Rural Broadband Deployments
- Commercial In-building
- Security and Building Automation
- Wireless Access Points
- In-building Security and Building Automation
- Residential FTtx
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The CommScope EPON Portfolio

The CommScope EPON portfolio includes Optical Line Terminals (OLTs), Optical Network Units (ONUs), System Management Software, and installation components. Small and large OLTs plus multiple ONUs give you the tools to optimize system performance while delivering lower overall cost of ownership.

Optical Line Terminals (OLTs)

CommScope EPON OLTs provide high throughput and capacity in an easy to deploy and maintain chassis. With both 1GE and 10GE capabilities, CommScope EPON OLTs give you an open migration path to tomorrow’s higher capacity technologies.

- Scalable architecture for capacity expansion
- Redundancy for high availability
- 1GE and 10GE uplink capabilities with link aggregation
- GUI-based provisioning, operation, and management

OLT – C9264 is perfect for large-scale deployments, with the ability to service up to 4,096 Optical Network Units (ONUs). It provides a 960Gbps, 10GE next-generation platform in an 8RU, 19”, rack-mounted chassis. The C9264 OLT supports IEEE 1588v1/v2 as well as Synchronous Ethernet for precise timing and synchronization.

OLT-C9016 can handle up to 1,024 ONUs, making it ideal for smaller deployments. The compact, 19”, 2 RU chassis features 16 x 1GEPON capacity with 2 x 10GE and 4 x 1GE uplink interfaces.

Optical Network Units (ONUs)

The CommScope EPON portfolio offers a variety of ONUs, including Single-User, Multi-User and Small Form Factor Pluggable (SFP) units. The ONUs feature an assortment of Ethernet, PoE (Power over Ethernet), voice ports, and WiFi capabilities for the connectivity your subscribers need.

Single-User ONUs: CommScope EPON CS-Series ONUs are created for low-cost indoor deployments such as FTTH and FTTDesktop. Each 19” 1RU unit uses IEEE 802.3ah EPON technology and features four Logical Link Identifiers (LLID), AES-128 encryption, and provides dying gasp and remote loopback test support for easy and accurate fault diagnostics.

Multi-User ONUs: Our CM-Series ONUs are designed into a compact 1U, 19”, rack-mounted unit that features either 24FE, 24GE or 24GE/PoE ports, along with two uplink ports for optional redundancy.

SFP ONU: CommScope EPON SFP ONUs can be used with any SFP-enabled device including switches and routers, allowing you to customize ONU functionality to your specific needs.

- Single-user, Multi-user, SFP
- Optical Ethernet, T1, E1, TDM, and VoIP connectivity
- High redundancy

voice
video
data
System Management

The CommScope EPON integrates seamlessly into your management architecture. It can be managed from external CLI (Command Line Interface) and SNMP-based programs or with its own GUI. All management options give you complete control over your EPON network. Manage port, VLAN, multicast and EPON settings, schedule routine system backups, and download and install upgrades. You can also monitor system performance in real-time and manage fault systems such as alarms.

Why Partner with CommScope for Your EPON Solution?

Our business is connectivity. Nobody is more qualified or equipped to bring all the components together and ensure seamless operability. From headend to the ONUs, CommScope can provide all the PON components, plus the cabinet enclosures, cabling, and connectors. More importantly, we see and understand the big picture.

Since 1976, CommScope has been a connectivity leader in some of the world’s fastest evolving industries. Designing solutions that provide an open path to future growth is second nature. So you can be sure that the investment in your EPON solution will continue to pay dividends, not matter how the technology changes.
We’re proud to be part of your network’s story.

CommScope is a trusted resource and partner around the world because we’re invested in you: your people, your networks, your success. It inspires us to build relationships and infrastructure…connect people and technologies across protocols, oceans, and time zones…and share what we learn along the way. We’ll never stop connecting and evolving the business of life at home, at work, and on the go.

This is our promise to you.
This is CommScope.

For more information on EPON solutions from CommScope, visit www.commscope.com or email us at EPONsolutions@commscope.com