ADTRAN®

Data Sheet

ADTRAN

9500

Next Generation EPON & 10G EPON OLT

10 Gbps   ⌂ FTTH   🕐 Gigabit

Benefits

- All-front access
- 19-inch, 10RU chassis with 14 slots
- CableLabs Certified DOCSIS Provisioning of EPON (DPoE)
- Simple, scalable, flexible deployment
- Non-blocking architecture
- 2 x SCU, 10 x PIU (PON interface unit), 2 x LIU, 2 x power supply unit (PSU)
- EPON and 10G EPON optics: laser class B+/C+
- PON range: typical 20 km / max 60 km, other optics available

Overview

The ADTRAN 9500 is a next-generation Ethernet passive optical network (EPON) optical line terminal (OLT), supporting full 1G and 10G EPON functionality in a high-density, fully redundant platform. Built on a leading Layer-3 switch platform, the 9500 is at the forefront of PON-based access network technology. The 9500 delivers enhanced capacity, traffic management, EPON modes (1G/1G, Turbo (2/1), 10G/1G, and 10G/10G), and DPoE along with other capabilities that are required by evolving access networks. With the headroom to provide expanded bandwidth and advanced feature sets, the 9500 supports the increasing deployment of FTTx networks, including fiber-to-the-home, fiber-to-the-business, fiber-to-the-desk, and fiber-to-the-tower.

As a scalable EPON OLT, the 9500 allows network operators to control costs and capacity with a "pay as you grow" platform. Additional blades, redundancy, line cards, and optics can be installed as needed, making the 9500 virtually

future-proof. The chassis features 14 blade slots that can accommodate two switch and control units (SCUs), two line interface modules (LIMs), and 10 PON interface modules (PIMs).

The LIM slots, which provide the NNI/uplink connections, accept eight-port 1GE or 10GE blades. The PIM slots accept eight-port 1G EPON or universal EPON blades to support 1G/1G, Turbo (2/1), 10G/1G, and 10G/10G EPON, with a total capacity of 80 PONs.

The 9500 provides convenient system operation and maintenance via Layer-2 switching; Layer-3 routing; QoS; Operations, Administration, and Maintenance (OAM); and security features. Additionally, the platform incorporates a fully redundant design that improves system availability and reliability to "five nines" levels. Together, these features provide an adaptive and powerful EPON solution that satisfies network policy and configuration requirements.

PRODUCT SPECIFICATIONS

System-at-a-Glance

- **10G-EPON OLT system based on commercial chipset**
- **10G and 1G GE-PON modules accommodated at the same time on a platform, including co-existence**
- **Non-blocking switch fabric**
- **Advanced traffic management (per PON LLID, VLAN and CoS)**
- **Full redundancy system options**
- **2GB main memory, 1GB (OS)/12MB (config)/2MB (BPS) flash memory**
- **Up to 256K MAC addresses**
- **Up to 128 K routing entries**
- **All filtering functions**
- **IPv6 compatible**

System Architecture

- **Uplink Slot (up to 2):**
  - 8x10 GE ports per module (up to 16x10 GE ports per chassis)
  - 8x1 GE ports per module (up to 16x1 GE ports per chassis)
  - Various SFP/XFP optic modules available

- **PON modules (up to 10):**
  - 8x10G EPON ports per module
  - 8x1 GE EPON ports per module
- **Slot capacity:** 14
- **Full-duplex Switching Capacity:** 1920 Gbps (non-blocking)
- **System throughput:** 1.44 BPPS
- **Memory:** 2GB main memory
- **Management interfaces:** RS-232C, 10/100BaseT

Mechanical

- **19 inch Rack Mount, 4RU:**
  17.4 in (w) x 17.1 in (h) x 11.6 in (d)
  (443 mm x 435 mm x 295 mm)

Power Options

- **Power Consumption:** 1500W max
- **Rated input voltage:** -48VDC or 110/220VAC

Environmental

- **Operating Temperature:** –32° F to +122° F (–0° C to +50° C)
- **Humidity:** 5% - 95% (Non-Condensing)

ORDERING INFORMATION

Equipment	Part No.
ADTRAN 9500 Next Generation EPON and 10G EPON 14 slot OLT	**1759500CHF1**
ADTRAN 9500 EPON DC System (2x SCM, 2x DC Power Supply and 3x Fan Module)	**4759500D2F1**
9500 SCM	**1759500F1**
9500 PSM	**1759500DPF1**
9500 Fan	**1759500F3**
9500 LIM 8x 10G EPON	**17595L10XF1**
9500 PIM 10x	**17595P10XF1**
9500 Blank Panel for SCM	**1759500SCF1BL**
9500 Blank Panel for PIM/LIM	**17595PMF1BL**

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TL 9000

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