

ADTRAN

FTC7511

8-Port Gigabit EPON ONU Concentrator



Gigabit



Capable



Weather-Hardened



Low TCO

Benefits

- Increased distance via optical budget savings
- Power savings
- More subscribers per ODN
- Access and customer-premises equipment (CPE) independence
- Simpler installation and operator maintenance
- CPE plug-and-play

Overview

The ADTRAN FTC7511 optical network unit concentrator (ONU-C) is an innovative Fiber-to-the-Distribution-Point (FTTdp) solution that services clustered developments with per-subscriber provisioning, management, and Quality of Service (QoS) not available in traditional FTTdp designs. It features 8 x 1G-EPON ONUs within a 1RU temperature-hardened, compact enclosure, incorporating a common ONU transceiver and power source that provides dramatic optical budget and power savings compared to eight individual ONUs. The FTC7511 ONU-C allows operators to provide symmetric 1 Gigabit services at longer distances (up to 56km) over EPON networks.

Cable operators face unique challenges with traditional FTTx deployments. These challenges include limited trunk fiber, increased distances, management of deployed equipment, and in some cases a geographically concentrated/dispersed customer base. The feature set of the FTC7511 ONU-C addresses all of these deployment challenges.

- Extends PON coverage up to 56km
- Enables cost-effective Gigabit services delivery to MDU environments
- Supports eight times more subscribers per ODN



ADTRAN FTC7511

Product Specifications

Physical Specifications

- **Dimension:** 15.4 in. x 10.2 in. x 1.75 in. (W x D x H) (1RU) [390 mm x 260 mm x 44 mm (1RU)] (excluding protrusions)
- **Weight:** 7.85 lbs. (3.56 kg)
- **Mounting:** 19" rack-mount, wall-mount (face-up or right side-up)

Power Supply Input

- 120 VAC x 2 inputs

Redundancy

- Two external, hot swappable, power supply modules supported

Power Consumption

- 120W (max)

Working Environment

- **Operating Temperature:** -40°F to +140°F (-40°C to +60°C), 10 to 90 percent RH (non-condensing)
- Ventilation with a hot-swappable fan module
- **PON Interface (Uplink):** Number of Ports 2*
 - ◆ **Transceiver:** SFP+ (10Gbps)
 - ◆ **Standard:** 10GBASE-PR-U3
- **User Interface (Downlink) Type:** RJ-45 or SFP (selectable per subscriber)
 - ◆ **Capacity:** Up to eight subscribers
 - ◆ **Standard:** RJ-45: 1000BASE-T/100BASE-TX /10BASE-T
 - ◆ **SFP:** 1000BASE-X
- **Standards:**
 - ◆ DPoE 1.0 Capable
 - ◆ MEF 9 and 14 Capable

*Product currently supports 1 port

Ordering Information

Equipment	Part No.
ADTRAN FTC7511 10G-EPON ONU-C	4767511FTCF1



ADTRAN, Inc.
901 Explorer Boulevard
Huntsville, AL 35806

General Information
+1 256 963 8000
www.adtran.com/contactus

Headquarters—EMEA
ADTRAN GmbH
Erika-Mann-Str. 25
80636 Munich-Germany
+49 89 411097 111
sales.europe@adtran.com

Central-/East and West Europe
+49 89 411097 111
sales.cewe@adtran.com

South Europe
+49 89 411097 111
sales.southeurope@adtran.com

North Europe and CIS
+49 89 411097 111
sales.ne@adtran.com

Middle East and Africa
+49 89 411097 111
sales.mea@adtran.com

Asia
+61 3 9658 0500
sales.asia@adtran.com

Australia/New Zealand
+61 3 9658 0500
sales.australia@adtran.com

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