

EdgePON-3X10

Rugged Remote OLT

ITU Scalable, Thermally Hardened Switch, Optimized for Ciena's TiBit MicroPlugs

The **Antronix EdgePON-3X10** is a compact, outdoor-rated, thermally hardened, low-power Remote OLT solution optimized for **Ciena's XGS MicroPlug (TiBit Micro OLT)**.

Designed for broadband service providers seeking a flexible and easy-to-deploy PON remote OLT platform, the EdgePON-3X10 delivers the full capabilities of a remote OLT. Its secure, field-ready housing enables fast, reliable installations that support efficient subscriber turn-ups and accelerates time-to-market.



Passively Cooled,
Outdoor, Low
Power
Edge Ethernet
Switch



The EdgePON-3X10 supports multiple Ciena MicroPlug SFP+ OLT modules, enabling agile deployment (pay as you grow) for FTTX, FTTB, as wireless backhaul. Ciena's MicroPlug SFP+ OLT open network architecture allows operators a choice of ONT providers. Also the Ciena MicroPlug is distributed with its MCMS platform (for a nominal yearly licensing fee) which optimizes layer 2 management and performance. This makes the EdgePON-3X10 an OpenPON white box solution for ISP and operators that can be easily and economically deployed.

Features and Benefits

- Remote OLT function: supports up to 3 of Ciena's XGS MicroPlug PON SFP+ OLT modules plus SFP+ uplink.
- Supports 32 ~ 128 ONT's per SFP+ PON OLT module.
- Optional Integrated High Density Fiber Distribution MPO connectors saves cost of bulky cabinets
- Multiple powering options available; including POE, integrated AC\DC DC\DC, CATV Powering
- Outdoor, passively cooled, temperature hardened: -40°C to 65°C operating temperature, IP68
- **SWaP** - compact **S**ize, light **W**eight (10lb), low **P**ower consumption 20 Watts.
- Versatile platform allows for Mini-POP connectivity configuration (Fiber, Fixed Wireless, and or LEO)
- Fully featured edge switch capabilities, supporting remote management and configuration (MCMS)

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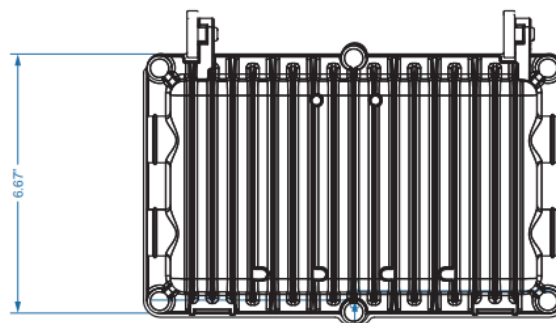
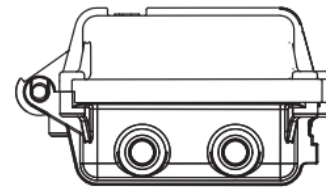
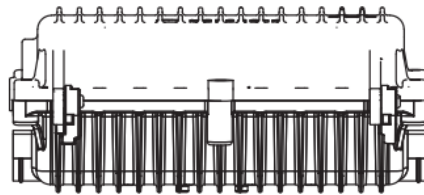
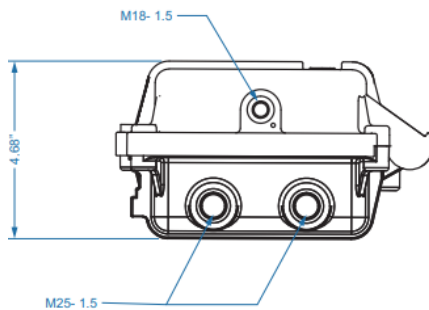
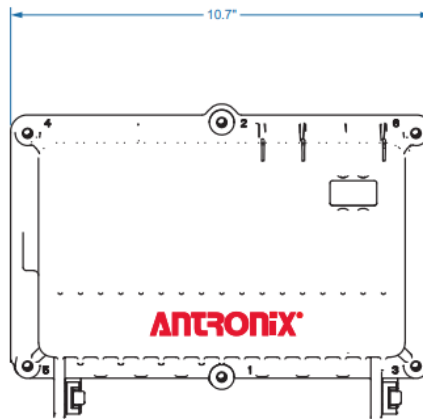
Partial list of features, with focus on "PON specific" specifications below, full feature list on request.

Forwarding	Full non-blocking wire speed switching Large Unicast FDB for Layer 2 unicast forwarding Forwarding Database works based on SVL or IVL Port Isolation Jumbo frame support - 10218 bytes
Spanning Tree Protocol	STP/RSTP/MSTP support
Link Aggregation	Supports 802.3ad LACP groups Supports static link aggregation groups Up to 16 link aggregation groups Up to 8 member ports per group Hardware automatic failover and load balancing
Multicast Forwarding	IGMP Snooping support Unknown Multicast Filtering
Mirroring	Port/MAC based mirroring
VLAN	Fully compatible with IEEE802.1Q Port-based VLAN Up to 250 VLAN entries (limited by SwOS) VLAN filtering
Security	Port Lock Broadcast Storm Control DHCP & PPPoE Snooping
Quality of Service (QoS)	DSCP and 02.1p PCP mapping
Power Supply	20 Watts (typical) 120vac \ External 12 vdc \ POE \ CATV 60~90vac
Operating Temperature	-40 °C to 65 °C (-40 °F to 158 °F)
Physical Size & Weight	11.25 x 8.4 x 4.75 inches - 8 lbs.
Networking	Switching Capacity – 81 Gbps Non-Blocking throughput – 41 Gbps



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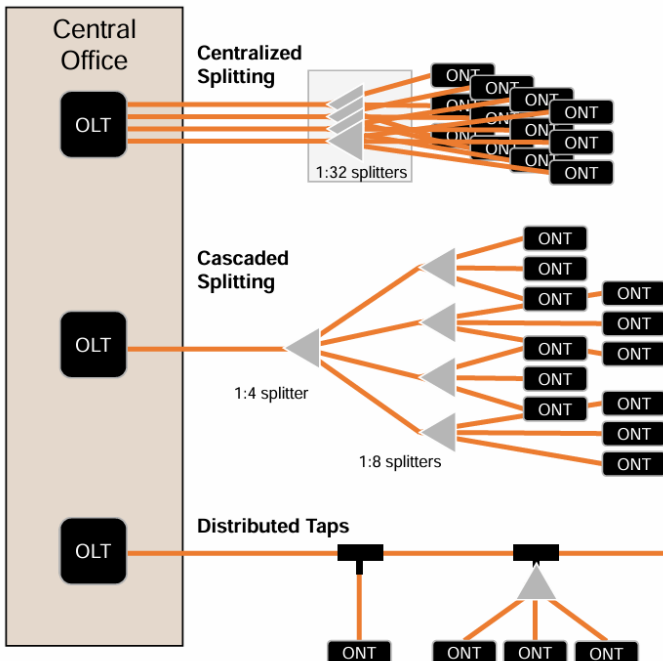


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EdgePON

EdgePON-10X w/Optical Splitters



Splitter Type and Location

- Centralized:
 - Grouped Splitters at OLT or Field
 - Generally friendly to new splitters
- Cascaded/Distributed:
 - Small cascaded splitters
 - Distributed Taps (unbalanced 1:2 splitter)
 - Distributed Centralized Splits
 - Might be better to use coexistence



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Item	Description
EdgePON-10X-0001-P3	10G EdgePON RemoteOLT & Ciena MicroPlug PON SFP OLT (Tibit) I-Temp with Integrated AC-DC Power Supply.
EdgePON-10X-0001-P5	10G EdgePON RemoteOLT & Ciena MicroPlug PON SFP OLT (Tibit) I-Temp with Integrated CATV Power Supply
	The housing for the above series accommodates only 1 Ciena MicroPlug PON SFP OLT (Tibit) I-Temp
EdgePON-2X10-0001-P3	10G EdgePON RemoteOLT & 2 Ciena MicroPlug PON SFP OLT (Tibit) I-Temp w/Integrated AC-DC Power Supply
EdgePON-2X10-0001-P5	10G EdgePON RemoteOLT & 2 Ciena MicroPlug PON SFP OLT (Tibit) I-Temp w/Integrated CATV Power Supply
EdgePON-3X10-0001-P3	10G EdgePON RemoteOLT & 3 Ciena MicroPlug PON SFP OLT (Tibit) I-Temp w/Integrated AC-DC Power Supply
EdgePON-3X10-0001-P5	10G EdgePON RemoteOLT & 3 Ciena MicroPlug PON SFP OLT (Tibit) I-Temp w/Integrated CATV Power Supply
	Add-Ons
	Integrated standard Optical Splitters (See applicable datasheet)
	Integrated High Density MPO Fiber Distribution Module (See applicable datasheet)