

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

Features and Benefits

The Antronix EdgePON-10X is a compact, outdoor-rated, thermally hardened, low-power remote OLT solution optimized for Ciena's XGS MicroPlug (TiBit Micro OLT). The system consists of two components: the EdgeSwitch-10X, a ruggedized outdoor 10G switch with four SFP+ ports, and one or more Ciena MicroPlug SFP+ PON OLT modules.

Designed for broadband service providers seeking a flexible, easy-to-deploy PON access platform, the EdgePON-10X delivers the full capabilities of a remote OLT. Its secure, field-ready housing enables fast, reliable installations, supports efficient subscriber turn-ups, and accelerates time to market.



Passively Cooled, Outdoor,
Low Power, Edge Switch



The EdgePON-10X can support multiple Ciena MicroPlug SFP+ OLT modules, enabling flexible, pay-as-you-grow deployment for FTTX, FTTB, and wireless backhaul applications. Ciena's MicroPlug SFP+ OLT open network architecture gives operators a choice of ONT vendors.

The Ciena MicroPlug is also supplied with its MCMC platform, available for a nominal annual licensing fee, to support Layer 2 OLT management and provisioning. These capabilities make the EdgePON-10X an OpenPON white-box solution that ISPs and network operators can deploy easily and economically.

- **Remote OLT:** Ciena's XGS MicroPlug PON SFP+ OLT module. (Also available in 3 PON SFP+ OLT configuration)
- Supports 32 ~ 128 ONT's per SFP+ PON OLT module.
- Optional Integrated High Density Fiber Distribution MPO connectors in lieu of bulky fiber cabinets
- Multiple powering options available; including POE and integrated AC\DC DC\DC and CATV Powering
- Outdoor, Passively Cooled, IP68, Temperature Hardened -40°C to 65°C operating temperature
- **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 enterprise level switch capabilities for remote management and configuration (MCMS)

EdgePON-10X

Rugged Remote OLT

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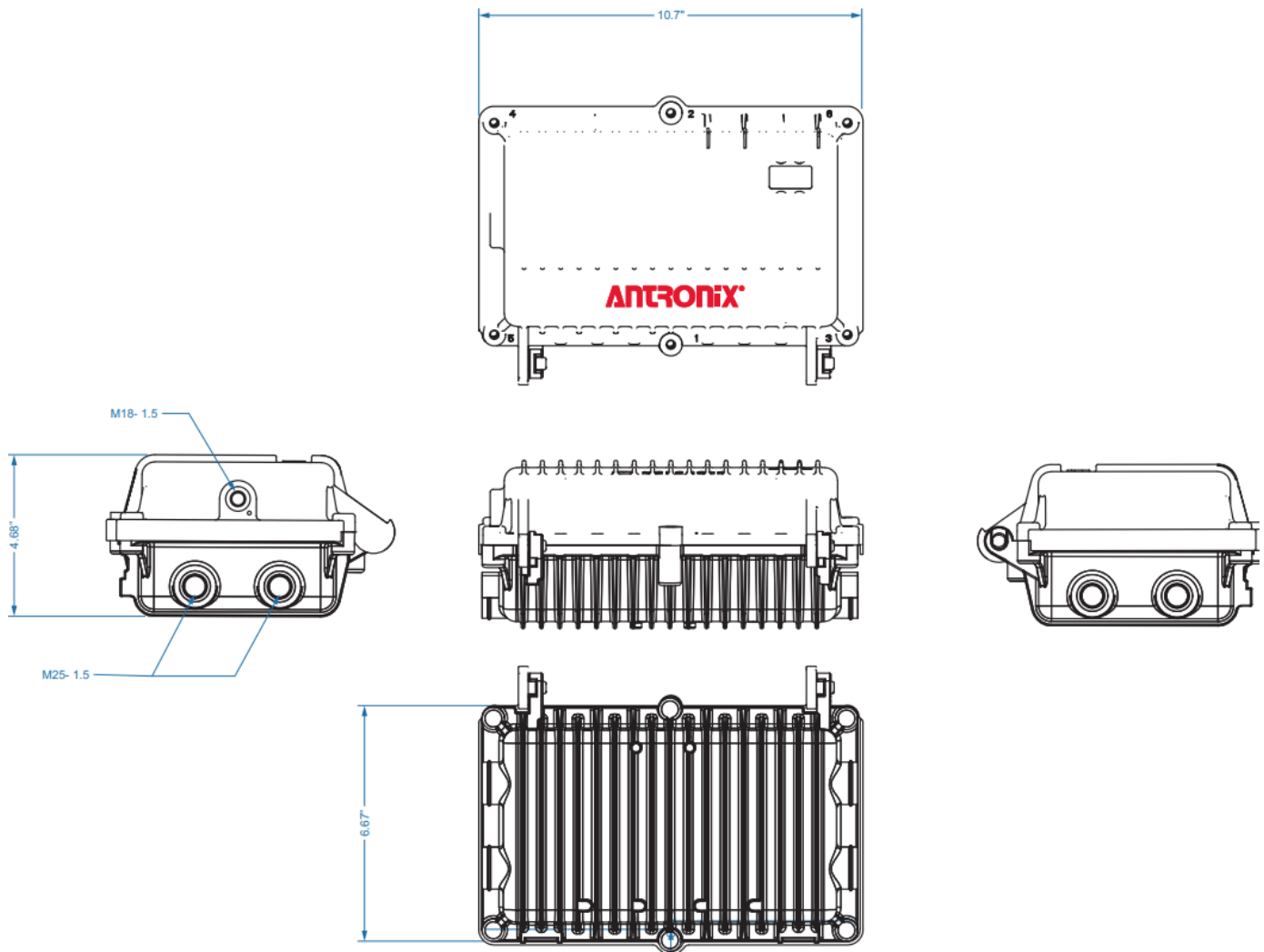
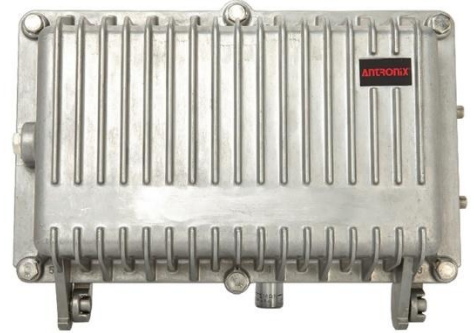
PON – OLT	Ciena MicroPlug PON SFP+ OLT: Hot-pluggable SFP+ optical transceiver with a built-in 10G Ethernet-to-10G PON optical line terminal (OLT) media access control (MAC) bridge.
PON – ONT	OpenPON: Compatible with most ONT vendors and models.
Forwarding	Full non-blocking wire speed switching. Large 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	RSTP 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-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)	Ingress traffic limiting
Access Control List	Ingress ACL tables Up to 32 ACL rules (limited by SwOS) Classification based on ports, L2, L3, L4 protocol header fields ACL actions include filtering, forwarding, and modifying the protocol header fields
Power Supply	20 Watts (typical) 120vac \ Integrated 120vac\ External 12-24 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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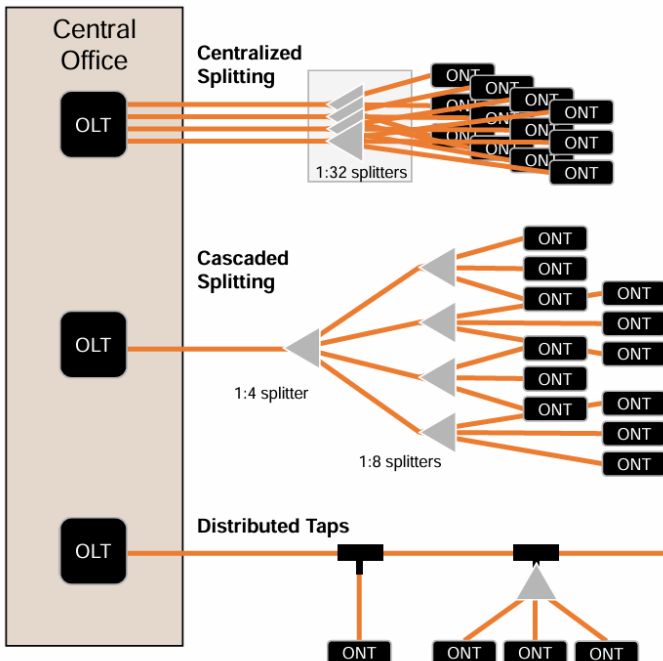


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EdgePON

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)

