

SATURN SOLT33-8P

Optical Line Terminal



The internationally certified Saturn OLT is designed with a focus on quality, performance and features. Based on advanced technology and supporting powerful Ethernet services and QoS features, the Saturn OLT series runs highly flexible software in order to satisfy custom operator requirements.

Redundant power supplies ensure reliable operation by providing a backup power supply in the event the primary power source should fail.

Features

- » Compact 1U design
- » 8 GPON ports
- » 8 GE Optical uplink ports
- » 8 GE Electrical uplink ports
- » Expansion slot to support an additional 2 x 10G ports
- » Support B+ and C+ SFP
- » Performance: ONT Bandwidth Graph
- » ONT Broadcast and loop protection
- » Dual power supply

High-performance software-driven platform

The Saturn SOLT33-08P OLT is an enhanced OLT that is easy to install and maintain.

The compact 1U OLT provides 8 downstream GPON ports, 8 uplink GE optical port and 8 GE electrical ports with an expansion slot supporting an additional 2 x 10GE SFP+ ports.

The splitting ratio of up to 1:128 supports different configurations of Genexis ONTs in order to minimise operator investment.

Product features & specifications

Saturn SOLT33-8P OLT

General specifications

- » Dimensions (H x W x D) 440x44x380 mm
- » Weight ≤ 2.8 kg
- » Power supply
 - AC 100 - 200 V
 - 50 - 60 Hz
 - DC -37 - -75 V
- » Power consumption typ. ≤ 85 W
- » Operating temperature -10 - 50 °C
- » Storage temperature -40 - 70 °C

Ports

- » 8 GPON ports
- » 8 GE Optical uplink ports
- » 8 GE Electrical uplink ports
- » 2 x 10G expansion slots

GPON

- » ITU -T G.984.x compliant
- » TR-101 compliant for FTTx OLT
- » Supports up to 128 x ONTs
- » Max. transmission distance 20km
- » FEC uplink support
- » FEC downlink support
- » Bandwidth allocation mechanism
- » 5 types of T-CONT bandwidth
- » Static Bandwidth Allocation
- » Dynamic Bandwidth Allocation
- » OMCI supported

Layer 3

IPv4

- » ARP Proxy
- » DHCP Relay
- » DHCP Server
- » Static route

IPv6

- » ICMPv6
- » DHCPv6
- » SA/DA Classification
- » MLD Snooping

Layer 2

MAC :

- » MAC Black Hole
- » Port MAC Limit

VLAN:

- » 4K VLAN entries
- » Port/MAC/IP subnet-based VLAN
- » QinQ and Flexible QinQ (Stack VLAN)
- » VLAN swap and remark

Spanning Tree Protocol (STP)

- » IEEE 802.1D Spanning Tree Protocol
- » IEEE 802.1w Rapid STP
- » IEEE 802.1s Multiple STP
- » ONU remote loop detect alarm

Ports

- » Bi-directional bandwidth control
- » Static link aggregation
- » LACP
- » Port mirroring

Security

User Security

- » Anti-ARP-spoofing
- » Anti-ARP-flooding
- » IP Source Guard
- » IEEE 802.1x & AAA/Radius authentication
- » TACACS+ authentication

Device Security

- » SSHv2 Secure Shell
- » SNMP v3 encrypted management

Network Security

- » L2 to L7 ACL flow filtration
- » DHCP Option82

Service Features

ACL

- » Standard and extended ACL
- » Time based ACL

QoS

- » 802.1P, DSCP priority and Remark
- » CAR (Committed Access Rate)
- » Traffic Shaping and flow statistics
- » Super queue scheduler
- » Tail-Drop and WRED

Multicast

- » IGMPv1/v2/v3
- » PIM-SM/PIM-DM/PIM-SSM
- » MLDv2/MLDv2 Snooping

Reliability

Loop Protection

- » STP
- » Loopback-detection

Link Protection

- » RSTP/MSTP (recover-time <1s)
- » LACP (recover-time <10ms), BFD

Device Protection

- » 1+1 power hot backup

Maintenance

Network Maintenance

- » Telnet-based statistics
- » RFC3176 sFlow
- » LLDP
- » 802.3ah Ethernet OAM
- » RFC 3164 BSD syslog Protocol
- » Ping and Traceroute

Device Management

- » CLI
- » Console
- » Telnet
- » SNMPv1/v2/v3
- » NTP
- » SATURN NMS

Saturn OLT product models

Model	Description	Configuration
SOLT33-08P	8 PORT OLT	8 x GPON ports and 8 x GE optical/Electrical
SUP10G-2P	10G interfacet	2 x 10G extension interface
SAC0	Additional Power supply	Power supply unit
SEMS15	Saturn EMS	EMS Software and basic licence