



## Saturn SOLT34-48P

### 48 Ports OLT

Hi-Bandwidth Optical Line Terminal

### Product Description

The Saturn SOLT34-48P OLT is our upgradable chassis solution developed with a focus on performance and features. The Saturn SOLT34-48P OLT is an enhanced OLT that is easy to install and maintain. The 8U chassis, high-density line card provides (max) 56 downstream GPON ports, Uplink (max) 4\*10GE SFP+

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

### Product Features

- » 8U Chassis, high-density line card
- » Max 48 GPON Ports (6 GPON line card)
- » Uplink maximum 4x10GE SFP+
- » Support B+ and C+ GPON SFP
- » IPv4/ IPv6 and MPLS hardware wire-speed forwarding capacity
- » ONT Broadcast and loop protection
- » 10 x Slot ( 6 x Line Card Slot, 2x Uplink & 2x Master Card Slot )
- » Hot plug fan tray
- » Dual power supply (AC+AC, AC+DC or DC+DC Options).

# PRODUCT FEATURES AND SPECIFICATIONS

## Saturn SOLT34-48P

### General Specifications

- » Dimensions (H x W x D)  
445×352.8×330 mm
- » Power Supply  
AC 90 to 264V  
DC -36 to -72V
- » Power consumption typ. ≤ 400 W
- » Backplane Bandwidth/Switching Capacity 400Gpbs
- » Forwarding Capacity 305Mpps
- » Operating temperature  
-10 ~ 55 °C
- » Storage temperature  
-40 ~ 85 °C
- » Relative humidity  
5%~95%,non-condensing

### GPON

- » ITU -T G.984.x compliant
- » Max 48 GPON OLT ports
- » Each GPON port supports 128 ONU
- » SOLT34-48P supports max 6144 ONU (full loaded)
- » Max. transmission distance 20km
- » FEC uplink support
- » FEC downlink support
- » Support downlink AES-128 encryption protocol
- » Bandwidth allocation mechanism
- » 5 types of T-CONT bandwidth
- » Static Bandwidth Allocation
- » Dynamic Bandwidth Allocation
- » OMCI supported

### Layer 2

#### MAC :

- » MAC Black Hole
- » Port MAC Limit
- » Switching capacity is 410Gbps
- » Dynamic learning
- » 64K Aggregation

#### VLAN:

- » 4K VLAN entries
- » Dual 802.1ad flexible QinQ
- » 32K incoming port VLAN conversion
- » 32K egress VLAN conversion
- » Port/MAC/IP subnet-based VLAN
- » QinQ (Stack VLAN)

### Layer 3

#### Forwarding

- » 16K IPv4 or 8K IPv6 host routing
- » 32K LPM IPv4 or 16K LPM IPv6 routing
- » 8K IPv4 multicast or 4K IPv6 Multicast
- » Static route

#### Spanning Tree Protocol (STP)

- » 802.1D, STP, 802.1w, RSTP, 802.1s multi spanning tree protocol

#### ACL

- » ACL packet filtering based on L2 and L3 protocols

#### Traffic Control

- » S802.3X full duplex flow control
- » Half duplex back pressure flow control

### Security

#### Device Security

- » SSHv2 Secure Shell
- » SNMP v3 encrypted management

#### Network Security

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

### 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
- » Hot plug Fan tray

### Maintenance

#### Network Maintenance

- » Telnet-based statistics
- » Support unicast, multicast, broadcast storm
- » The range of inhibition is 0~32000000 PPS
- » Ping and Traceroute

#### Device Management

- » CLI
- » Console (RS232 management interface)
- » Telnet
- » SNMPv1/v2/v3
- » NTP
- » SATURN NMS

## Configuration Options

Part Number	Description
SOLT34-48P	6 x service slots, 2 x main control slots, 2x Uplink, 1 x hot plug fan
SCB02	Main control board, processor with switch routing engine
ACP450	450W AC power supply (input AC 90V ~ 264V, 47 ~ 63Hz)
DGP450	450W DC power supply (input DC -36V ~ -72V)
SG08G1	GPON Card with 8 x GPON Ports
SEMS15	Saturn EMS, software and basic licence