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Redefining Fiber to Home

SC 5008 GL OLT



PRODUCT DATASHEET

PRODUCT OVERVIEW

The Scopus SC5008GL OLT is self-developed Compact 1U GPON OLT equipment, meeting the requirements of ITU-T G.984/G.988, possessing super GPON access capacity, carrier-class reliability and the complete security function. It can satisfy long-distance optical fiber access requirement on account of its excellent management, maintenance and monitoring capability, abundant service features and flexible network mode. SC5008GL can be used with NMS3000 network management system so as to provide users with the perfect solution.

The SC5008GL OLT provides 8* Downstream GPON ports, 4* Uplink GE ETH ports, 2* Uplink GE SFP ports and 2* Uplink 10G SFP+ ports. Up to 1:128 Split ratio for up to 1024 GPON users. The 1U pizzabox design is for easy installation, Maintenance and Space saving. SC5008GL is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc.

PRODUCT SPECIFICATIONS

GPON Interface
8 x GPON (2.5/1.25 Gbps)
10GE Ethernet
2 x 10GE SFP+
1GE Ethernet
4 x RJ-45 + 2 x SFP
PON interface
GPON
ITU-TG.984.x standard
Local Management interface
Console
RJ-45 EIA/TIA-232 Console management port
MGMT
1000BASE-T out-band management port
Performance

Switching Capacity

68Gbps

Split ratio

1:128

Maximum ONU quantity

4096 GEM port-ids, 1024 T-CONT, 128 ONT

Power Supply and Consumption

Power Adaptor

AC Input: 100 to 240 V AC, 50/60 Hz;

DC Input : 36V-75V

Redundancy Design

Pluggable double power supply, double AC, double DC and AC+DC

Consumption

<70 W

Environmental conditions

Storage Temperature -10 to 70°C, rel.

humidity 10-90% (non-condensing)

Operation Temperature -0 to 45°C, rel.

humidity 10-90% (non-condensing)

Physical specifications

Dimensions- 440mm×345mm× 44mm(W * D *H)

Weight <6.0KG

3.Key Feature Support on SC5008GL

Ethernet switching (L2) features

VLAN- 4K VLAN entries

Port-based QinQ and Selective QinQ (StackVLAN)

Port-based/MAC-based/IP subnet-based VLA

Spanning tree

IEEE 802.1x STP/RSTP/MSTP

ONU remote loop detection

MAC

MAC Black Hole

Port MAC limit

64K MAC address

Port

Bi-direction bandwidth control

Port mirroring and traffic mirroring

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Service Features

Multicast
IGMPv1/v2/v3
IGMP Snooping/Proxy
IGMP filtering
PIM-SM
QoS
Base on port or user-defined rate limitation
Base on port or user-defined priority tag, provide 802.1P, DSCP tag ability of priority
Base on port or user-defined high grade queue scheduling
Priority queues and scheduler of SP, WRR and SP+WRR.
Congestion avoidance system
Routing
BGP
OSPF
MPLS
RIP

Security Features

User security
Anti-ARP-spoofing deceive defend
Anti-ARP-flooding flooding attack automatic control
IP, MAC, port and VLAN binding
TACACS+ Authentication

Device Security

Defend DOS attack
Security IP login through Telnet
Hierarchical management and password protection of users

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Network Security

IP address, VLAN ID, MAC address and port manual binding
Port broadcast/multi /DLF storm control
Base on source / destination MAC address,VLAN,802.1p,ToS,- DiffServ,source/ destination IP(IPv4/IPv6) address,TCP/UDP port number protocol type of IP package flow classify and flow defined regulation management,support package header 80 byte depth L2-L7 ACLflow filtrate
Dynamic ARP table-based binding
DHCP Option82 and PPPoE+ upload user's physical location

Network Management

Command-line interface (CLI), Console, Telnet and WEB configuration
RMON (Remote Monitoring)1/2/3/9 groups of MIB
System configuration with SNMPv1/v2/v3
NTP(Network Time Protocol)
NMS2000 network management