

SCOPUS[®]

Redefining Fiber to Home

SC5004EL OLT



PRODUCT INTRODUCTION

The Scopus SC5004EL OLT (Figure 1) is self-developed Compact 1U EPON OLT equipment, meeting the requirements of IEEE802.3ah and meets the EPON OLT equipment requirements of YD/T 1945-2006. Technical requirements for access network based on Ethernet Passive Optical Network (EPON), possessing super EPON 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. SC5004EL can be used with NMS3000 network management system so as to provide users with the perfect solution.

The SC5004EL OLT provides 4 * Down stream EPON ports, 4 * Uplink GE ETH ports, 2 * Uplink GE SFP ports and 2 * Uplink SFP+ ports. Up to 1:64 Split ratio for up to 256 EPON users. The 1U pizza box design is for easy installation, Maintenance and Space saving. SC5004EL is suitable for Broadcast three in one, video surveillance network, enterprise LAN, Internet of Things, etc. Provide perfect, intelligent, powerful, advanced and professional solutions for FTTH/FTTB projects.

PRODUCT DATASHEET

PRODUCT SPECIFICATIONS

Network Interface

EPON Interface	4 * EPON (1.25/1.25 Gbps)
Uplink Optical Interface	2 * GE SFP + 2 * 10GE SFP+
Uplink Ethernet Interface	4 * GE RJ45

PON Interface

EPON	IEEE 802.3ah EPON
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Local Management Interface

Console	RJ45 EIA/TIA-232 Console management port
MGMT	1000BASE-T out-band management port

Performance

Switching Capacity	64Gbps
Package transmit rate (IPv4/IPv6)	125Mpps
Split ratio	1: 64
Maximum ONU quantity	256 ONT

Power Supply and Consumption

Power Adaptor	AC Input :100 to 240 V AC, 50/60Hz; DC Input : 36V-75V
Redundancy Design	Pluggable double power supply, double AC, double DC and AC+DC
Consumption	<46 W

Environmental Conditions

Storage	temperature -10 to 70°C, rel. humidity 10-90% (non-condensing)
Operation	temperature -5 to 50°C, rel. humidity 10-90% (non-condensing)

Physical Specifications

Dimensions	442mm×227mm× 44mm (W * D *H)
Weight	< 3.0KG

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KEY FEATURE SUPPORT ON SC5004EL

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 8K MAC address
Port	Bi-direction bandwidth control Port mirroring and traffic mirroring

Service Features

Multicast	IGMPv1/v2/v3 IGMP Snooping/Proxy IGMP filtering
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
L2	LACP/VLAN Tag / Un-tag/VLAN transmission/ QinQ/802.1D/802.1W IEEE802.x Flow Control/Port Isolation/Port Rate Limitation/Storm control
Routing(L3)	BGP/MPLS/RIP/OSPF/Arp agent,Static routing

PRODUCT DATASHEET

Security Features

User security	Anti-ARP-spoofing deceive defend Anti-ARP-flooding flooding attack automatic control IP, MAC, port and VLAN binding Port Isolation
Device security	Defend DOS attack Security IP login through Telnet Hierarchical management and password protection of users TACACS+
Network security	IP address,VLAN ID,MAC address and port manual binding Port broadcast / multibroadcast restrain 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

Ordering Information

SC5004EL	4*EPON, 4*GE RJ45 port, 2 * GE SFP + 2 * 10GE SFP+ , Single Power Supply AC
	4*EPON, 4*GE RJ45 port, 2 * GE SFP + 2 * 10GE SFP+ , Dual Power Supply AC+DC