



1. Product Overview

The Optivision RI04 OLT 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) technical requirements 3.0, 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 capacity, abundant service features and flexible network mode. OV-RE04 can be used with NMS3000 network management system so as to provide users with the perfect solution.

The OV-RE04 OLT provide 4 *Downsteam 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 pizzabox design is for easy installation, maintenance and Space saving. OV-RE04 is suitable for Broadcast three in one, video surveillance network, enterprise LAN, internet of Things, stc. Provide perfect, intelligent, powerful, advanced and professional solutions for FTTH/FTTB projects.





2. 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	
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, 50/60 Hz; 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	



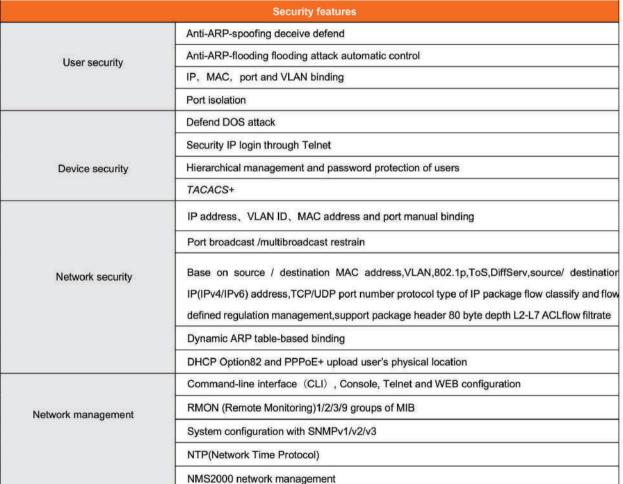


3. Key Feature Support on OV-RE04

Ethernet switching (L2) feat	ures
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







4. Ordering Information

Model	Product Description
RL8004EL	4*EPON, 4*GE RJ45 port, 2 * GE SFP + 2 * 10GE SFP+ , Single Power Supply

