

## WK-OLT series EPON OLT

### Introduction

WK-OLT series EPON OLT products are 1U height 19 inch rack mount products. The features of the OLT are small, convenient, flexible, easy to deploy, high performance. It is appropriate to be deployed in compact room environment. The OLTs can be used for "Triple-Play", VPN, IP Camera, Enterprise LAN and ICT applications. There are three members in this series, WK-OLT-2P, WK-OLT-4P and WK-OLT-8P.



**WK-OLT-2P**

WK-OLT-2P provides 2GE(copper) and 2SFP slots independent interface for uplink, and 2\*EPON OLT ports for downstream. It can support 128 ONUs under 1:64 splitter ratio.



**WK-OLT-4P**

WK-OLT-4P provides 4GE(copper) and 4SFP slots independent interface for uplink, and 4\*EPON OLT ports for downstream. It can support 256 ONUs under 1:64 splitter ratio.



**WK-OLT-8P**

WK-OLT-8P provides 8GE(copper) and 8SFP slots independent interface for uplink,



and 8\*EPON OLT ports for downstream. It can support 512 ONUs under 1:64 splitter ratio.

## Technical Specifications

Item		WK-OLT-2P	WK-OLT-4P	WK-OLT-8P
Chassis	Rack	1U 19 inch standard box	1U 19 inch standard box	1U 19 inch standard box
1000M Uplink Port	QTY	4	8	16
	Copper	2*10/100/1000M auto-negotiation	4*10/100/1000M auto-negotiation	8*10/100/1000M auto-negotiation
	SFP (independent)	2*SFP slots	4*SFP slots	8*SFP slots
EPON Port	QTY	2	4	8
	Physical Interface	SFP Slots	SFP Slots	SFP Slots
	Connector Type	1000BASE-PX20+	1000BASE-PX20+	1000BASE-PX20+
	Max splitting ratio	1:64	1:64	1:64
Management Ports		1*10/100BASE-T out-band port, 1*CONSOLE port		
PON Port Specification	Transmission Distance	20KM		
	EPON port speed	Symmetrical 1.25Gbps		
	Wavelength	TX 1490nm, RX 1310nm		
	Connector	SC/PC		
	Fiber Type	9/125μm SMF		
	TX Power	+2~+7dBm		
	Rx Sensitivity	-27dBm		
	Saturation Optical Power	-6dBm		
Management Mode		SNMP, Telnet and CLI		
Management Function		Fan Group Detecting; Port Status monitoring and configuration management; Layer2 switch configuration such as VLAN, Trunk, RSTP, IGMP, QOS, etc; EPON management function: DBA,ONU authorization, ACL, QOS, etc;		



	Online ONU configuration and management; User management; Alarm management.		
Layer2 Switch	Support port VLAN and protocol VLAN; Support 4096 VLANs; Support VLAN tag/Un-tag ,VLAN transparent transmission, QinQ; Support IEEE802.3d trunk; Support RSTP; QOS based on port, VID, TOS and MAC address; IGMP Snooping; IEEE802.x flow control; Port stability statistic and monitoring.		
Layer 3Route	1024 Host Routes; 512 Subnet Routes; 256 IP Multicast Groups;		
EPON Function	Support port-based rate limitation and bandwidth control; In compliant with IEEE802.3ah standard; Up to 20KM transmission Distance; Support data encryption, multi-cast, port VLAN, separation, RSTP, etc; Support Dynamic Bandwidth Allocation (DBA); Support ONU auto-discovery/link detection/remote upgrade of software; Support VLAN division and user separation to avoid broadcast storm; Support various LLID configuration and single LLID configuration; Different user and different service could provide different QoS by means of different LLID channels; Support power-off alarm function, easy for link problem detection; Support broadcasting storm resistance function; Support port isolation between different ports; Support ACL and SNMP to configure data packet filter flexibly; Specialized design for system breakdown prevention to maintain stable system; Support dynamic distance calculation on EMS online; Support RSTP, IGMP Proxy.		
Dimension(L*W*H)	442mm*200mm*43.6mm		442mm*320mm*43.6mm
Weight	3.1kg	4.2kg	4.5kg
Power	220VAC	AC:90~264V, 47/63Hz	
			Double Hot Backup



Supply				
Power Consumption		25W	30W	45W
Operating Environment	Working Temperature	-10~+55°C		
	Storage Temperature	-40~+85°C		
	Relative Humidity	5~90%(non-conditioning)		

