WGP5000-08FP Outdoor GPON OLT

WGP5000-08FP is our independently developed outdoor 8-port GPON OLT device. It can be equipped with a EDFA fiber amplifier built-in. The product follows the ITU-T G.984/G.988 technical standard. The product has good openness, high reliability and complete software functions. And it can be flexibly compatible with any brand of ONT. The product is suitable for outdoor harsh environment, resistant to high and low temperature, and can be widely used in operators' field FTTH access, video surveillance, enterprise network, Internet of Things, etc.

WGP5000-08FP can be installed on a pole or wall mounted according to the environment, which is convenient for installation and maintenance. The equipment adopts the industry's advanced technology, provides customers with efficient GPON solutions, supports the mixed networking of different types of ONUs, and can save a lot of costs.

Product Specifications

Attributes	WGP5000-08FP
Exchange Capacity	104Gbps
Package Forwarding Rate	77.376Mpps
Memory and Storage	Memory：2GB，Storage：8GB
Management Port	1 Console port，1 MGMT port
Fixed Port	8*GPON Port，1*10/100/1000M Base-T,4*1000M Base-X SFP/4*10GE SFP+
ON Features	Comply with ITU-TG.984/G.988 standard 60KM transmission distance 1:128 maximum splitting ratio Standard OMCI management functions Flexibly compatible with any brand of ONT ONU batch software upgrade
VLAN Performance	Support 4K VLAN 802.1Q Supports VLAN based on port, MAC and protocol Support dual Tag VLAN function, port-based static QinQ and flexible QinQ functions

MAC	Support 16K MAC address table items
	Support static MAC address setting
	Support black hole MAC address filtering
	Support port MAC address quantity limit
L2 Ring Network Protocol	Support STP/RSTP/MSTP
	Support ERPS(Ethernet Ring Protection Protocol)
	Support Loopback-detection
Port Control	Support bidirectional bandwidth control
	Support port storm suppression
	Support 9K Jumbo frame forwarding
Port Aggregation	Support static link aggregation
	Support dynamic LACP
	Each aggregation group supports a maximum of 8 ports
Mirroring	Mirroring
ACL	Supports standard and extended ACLs
	Supports ACL policy based on time range (Time Range)
	Provides flow classification and flow definition based on IP header information such as source/destination MAC address, VLAN, 802.1p, ToS, DSCP, source/destination IP address, L4 port number, protocol type, etc.
QoS	Support flow rate limit function based on custom service flow
	Supports packet mirroring and packet redirection based on custom service flows
	Supports custom service flow priority marking, and supports 802.1P, DSCP priority Remark capability
	Support port-based priority scheduling function, support queue scheduling algorithms such as SP/WRR/SP+WRR
Security	Support user hierarchical management and password protection
	Support IEEE 802.1X authentication/centralized MAC address authentication
	Support Radius&TACACS+ authentication
	Support MAC address learning number limit, support black hole MAC function
	Support SSH 2.0 to provide secure encrypted channel for user login
	Support SNMP v3 encryption management
	Support port isolation, hardware isolation of packets between ports
	Support broadcast packet rate suppression
	Support IP Source Guard to automatically create IP+MAC+Port+VLAN binding table, and support manual binding table entry
	Supports automatic suppression of ARP flooding attacks and ARP spoofing protection
	Support control layer to prevent various DOS attacks and virus attacks against CPU
L3 Function	Support ARP learning and aging
	Supports creating VLAN L3 interfaces and configuring static IPv4/IPv6 addresses
	Support static route configuration
	Support RIP/OSPF protocol function
	Support VRRP protocol function

System Management	Support Console/Telnet/SSH2.0 command line configuration
	Support WEB browser configuration management
	Support FTP, TFTP file upload and download management
	Support SNMP V1/V2/V3
	Support RMON
	Support SNTP clock
	Support system work log
	Support LLDP Neighbor Device Discovery Protocol
	Support 802.3ah Ethernet OAM
	Support RFC 3164 Syslog function
	Support Ping and Traceroute
Environment Temperature	Operating environment temperature：-20℃~60℃
	Storage environment temperature：-40℃~70℃
Environment Humidity	Operating environment humidity：10%~95%（non-condensation）
	Storage environment humidity：10%~95%（non-condensation）
Environmental Protection	China RoHs,、EEE
Weight（full configuration）	≤9.5kg
Power Supply	AC100~240V 47/63Hz；
Power Consumption	65W
Dimension (W * H * D)	370x295x152mm

Ordering Information

Product Name	Product Descriptions
WGP5000-08FP	8*PON port, 4*10GE/GE SFP + 1GE RJ45, Dual power supply optional
EDAF-FG	EDFA module（Optional 1 port, maximum 8 ports） （Single power supply can be equipped with EDFA）