

OGT 6850 - 16 GPON OLT with 16 PON Port



The OGT 6850 series are small-capacity enhanced cassette OLT switching equipment. It fully meets the standard of ITU-T G.984 / G.988. Its splitting ratio is up to 1:128. OGT 6850 series can offer good management and rich service features.

Applications

☐ FTTX

☐ CATV

☐ Data

Features

- ☐ Comply with ITU-T G.984.x / G.988 standard
- ☐ Comply with IEEE802.3ah standard
- ☐ Support data encryption, group broadcasting, etc.
- ☐ Support VLAN division to avoid broadcast storm
- ☐ Support ACL and SNMP to configure data packet filter flexibly
- ☐ Maximum 60 Km transmission distance for single fiber
- ☐ Support legality authentication of ONU and reporting of illegal registration
- ☐ Support DBA (Dynamic Bandwidth Allocation)
- ☐ Support software online upgrade
- ☐ Support OMCI and TR069 management
- ☐ Support loopback detection at user network interface
- ☐ Support dual AC, dual DC or AC / DC power supply
- ☐ Support OAM functions including configuration, alarms, performance monitoring, fault isolation, and security management, etc.
- ☐ Support security protection, adopt packet-by-packet forwarding based on hardware
- ☐ Support up to 2048 ONU terminals in full configuration with high-density PON ports
- ☐ Support packet filtering and anti-illegal message protection, forbidding unknown unicast, broadcast and multicast message.

Specifications

Feature	Description
Switching Capacity	60 Gbps
PON Interface	16 ports GPON
Uplink Interface	2 ports 10G (SFP+) or 8 ports GE
Power Supply	1 plus 1 AC : Input 100~240V , 47~63Hz 1 plus 1 DC : Input -40.5V~-72V
Power consumption	Maximum : 105W
Dimensions (mm) (W*D*H)	445mm*340mm*44.5mm Working temperature : -5℃~50℃
Environment	Storage temperature : -40℃~70℃ Relative humidity : 10%~90% , no condensing
PON Features	Comply with ITU-T G.984 / G.988 standard Each PON port supports up to 128 GPON ONU Support five types bandwidth profile Support multiple ONU authentication mechanisms Support ONU information report Support ONU automatic registry Support DBA (Dynamic Bandwidth Allocation) Support ranging and logical distance configuration Support upstream and downstream FEC enabling / disabling Support AES encryption Support ONU service batch upgrade Support PON port-isolate Support configure ONU management IP Support TR069 Support ONU UNI port MAC address filtering Support ONU UNI port status check Support PON port and ONU RSSI related attributes alarm Support ONU capability set query Support SFU UNI port status query Support ONU remote batch upgrade Support ONU MAC-move alarm

Ethernet Features	VLAN	Support 4K VLAN entries Support QinQ based on port or service flow Support VLAN translate and transparent per ONU service flow
	Spanning Tree	Support STP / RSTP
	Port Management	Support bidirectional bandwidth control Support static and LACP aggregation groups Support port mirrors and service mirrors Support port SFP information reading Support port RSSI configuration and alarm
	Multicast	Support IGMP v1 / v2 / v3 Support IGMP Snooping / Proxy Support MLD Snooping / Proxy Support static multicast configuration Support multicast group filter
	PPPoE	PPPoE+
	QoS	Support service flow rate limit of both upstream and downstream Support downlink simple and hierarchical scheduling Support QoS mapping up and down Support queue priority scheduling (SP / WRR / SP + WRR)
L3 functions	DHCP	DHCP-Relay DHCP-Snooping DHCP-Option82
	VLANIF	Configuring L3 interface addresses
	ARP	Arp-agent
	Routing	Static / Default
Security Features	User Security	Support port and ONU isolation Support MAC filtering Support binding among IP , MAC , VLAN and port
	Device Security	Support anti-DoS attacks Support user classification to prevent unauthorized users from illegal invasion
	Network Security	Support port broadcast / multicast packet suppression Support flow classification and flow definition based on IP packet header information such as source / destination MAC address, VLAN, 802.1p, ToS, DiffServ, source / destination IP address (IPv4 / IPv6), TCP / UDP port number, protocol type. Support for L2-L7 ACL flow classification Support business flow strategy, including mirroring, redirection, statistics, filtering.
Network Management		Support the management based on serial port Support the management based on the command line interface Support the network management of NMS based on SNMP