

SAN3700-G08E

1U GPON OLT



Overview:

GPON OLT SAN3700-G08E is high density 1U pizza box, it adopts the advanced technology and Broadcom ASIC chip. SAN3700-G08E is fully compliant with ITU-T G.988 GPON standards, can interwork with different types of ONU from different vendors. It is based on the mature and robust Sino OS software platform from Sino Telecom, system has high reliability and stability. SAN3700-G08E supports network management via CLI and SNMP, with good user interface, easy to operate.

SAN3700-G08E provides the highest GPON port density in 1U box in the industry, which has 8 ports GPON, 2 ports 10GE or 8 ports GE uplink. Single GPON port can manage 128 ONUs, one equipment can manage up to 1024 ONUs. The device is easy to install and commissioning, minimizing operators' investments, it is the best suitable for service provider to deploy GPON based FTTH network.

Physical Characteristics:

Parameters	Description
Switching Capacity	➤ 40Gbps
PON Interface	➤ 8 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: 80W
Dimensions (mm) (W*D*H)	➤ 440mm*380mm*44mm
Environment	➤ Working temperature : -5°C ~ 50°C ➤ Storage temperature : -40°C ~ 70°C ➤ Relative humidity : 10% ~ 90% · no condensing

Technical Specification:

Feature		Description
PON Features		<ul style="list-style-type: none"> ➤ Compliance with ITU-T G.988 and operator related standards ➤ each PON port supports up to 128 GPON ONU ➤ Support of 5 types bandwidth profile ➤ Support of multiple ONU authentication mechanisms, such as LOID, SN, Password, and combined authentication. ➤ Support of ONU information report ➤ Support of ONU auto register ➤ Support of DBA (Dynamic Bandwidth Allocation) ➤ Support of ranging and logical distance configuration ➤ Support of upstream and downstream FEC enabling/disabling ➤ Support of AES encryption ➤ Support of ONU service batch upgrade ➤ Support of PON port-isolate ➤ Support of configure ONU management IP ➤ Support TR069 ➤ Support of ONU UNI port MAC address filtering ➤ 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
Ethernet Features	VLAN	<ul style="list-style-type: none"> ➤ Support of 4K VLAN entries ➤ Support of QinQ based on port or service flow ➤ Support of VLAN add, remove, translate and transparent per ONU service flow based
	Spanning Tree	<ul style="list-style-type: none"> ➤ Support STP\RSTP ➤ Loop detection supporting remote ONU

	Port Management	<ul style="list-style-type: none"> ➤ 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	<ul style="list-style-type: none"> ➤ Support IGMPv1 / v2 / v3 ➤ Support IGMP Snooping / Proxy ➤ Support MLD Snooping / Proxy ➤ Support static multicast configuration ➤ Support for inter-VLAN multicast
	PPPoE	<ul style="list-style-type: none"> ➤ PPPoE+
	QoS	<ul style="list-style-type: none"> ➤ Support service flow rate limit of both upstream and downstream ➤ Support downlink simple scheduling and hierarchical scheduling ➤ Support QoS into the queue mapping up and down ➤ Support queue priority scheduling (SP \ WRR \ SP + WRR) function
L3 functions	DHCP	<ul style="list-style-type: none"> ➤ DHCP-Relay ➤ DHCP-Snooping ➤ DHCP-Option82
	VLANIF	<ul style="list-style-type: none"> ➤ Configuring L3 interface addresses
	ARP	<ul style="list-style-type: none"> ➤ Arp-agent
	Routing	<ul style="list-style-type: none"> ➤ Static routing ➤ Default routing
Security Features	User Security	<ul style="list-style-type: none"> ➤ Support port and ONU isolation function ➤ Support MAC filtering Support of binding among IP, MAC, VLAN and port
	Device Security	<ul style="list-style-type: none"> ➤ Support anti-DOS attacks ➤ Support user classification to prevent unauthorized users from illegal invasion

	Network Security	<ul style="list-style-type: none"> ➤ Support port broadcast / multicast packet suppression ➤ Supports 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 at packet depth of 80 bytes ➤ Support business flow strategy, including mirroring, redirection, statistics, filtering
Network Management		<ul style="list-style-type: none"> ➤ Support the management based on serial port (serial) ➤ Support the management based on the command line interface (CLI) ➤ Support the network management of NMS based on SNMP