

ZXA10 C610 PRODUCT DATASHEET

1U High PON OLT Meets Flexible and Cost-effective Ultra-BB Deployment



ZXA10 C610 Product Datasheet

ZXA10 C610 is a 1U high PON OLT that meets flexible, fast and cost-effective access of FTTx, suiting the scenarios such as low-density/remote/cost-sensitive area coverage, smart industrial park, commercial building access and FTTM, etc.





Key Features

- > The industry's highest density 1U OLT, provides up to 16 GPON ports and supports up to 1024 FTTH subscribers (1:64).
- Adapts to low-density areas coverage, remote areas coverage, cost-sensitive coverage, smart park and business buildings access, FTTM, and shares the same site/rack with wireless base stations, outdoor cabinet installation.
- > Supports series of installation modes, including residential building, equipment room, basement, outdoor cabinet, and pole-mount to reduce the expenditure in equipment room construction and lease payment as well as the maintenance cost.
- Carrier-class security protection and high-reliability redundancy design.



Hardware Features

Shelf configuration

- Total 4 slots
- 1 slot for switch control and GPON ports
- 2 slots for power card
- 1 slot for fan

System capability

System throughput: 160 Gbps

Subscriber interface

> GPON: 16/8 ports per shelf

Uplink interface

4* 10GE/GE optical and 2* GE electric uplink interfaces per shelf



ZXA10 C610 Product Datasheet



Clock synchronization interfaces

- 1 * 120Ω 2MBits/2Mhz clock and 1PPS+ToD input/output interface
- > 1 * out-of-band management interface
- > 4 * digital sensors (ALM)
- 1 * RS232 serial interface for local management and environment monitoring



PON Features

GPON

- > GPON is compliant to ITU G.984.x
- > Support up to 1:128 optical split ratio
- Support OLS

- Type B optical link protection
- Support FEC
- Support AES-128 encryption



L2 Features

- Access control: MAC filtering, ACL
- L2-port: physical Ethernet port, logical
 Vport and aggregation port, support L2
 service and TPID configuration
- VLAN: 1:1 VLAN, N:1 VLAN, flexible QinQ, VLAN bridge, TLS VLAN, M-VLAN, VLAN reuse
- 32k MAC address, MAC address management, static MAC, MAC address aging/learning/query/number limit
- Uplink protection: STP/RSTP/MSTP, LACP and trunking



QoS Features

- Queue & scheduling mechanism: SP, WRR, SP+WRR based on Ethernet ports or PON ports
- DSCP labeling and relabeling
- Traffic statistics
- H-QoS

- Stream classification, rate limiting, shaping and priority setting
- Congestion avoidance: tail drop, colorbased RED, WRED
- Configuration of CIR/PIR/CBS/PBS,
 TrTCM(Two Rate Three Color Marker)



ZXA10 C610 Product Datasheet





Security Features

Network security

- > Broadcast/multicast flooding rate limitation
- Downstream ARP filtering
- Forwarding panel protocol packet rate limit
- DHCP anti-spoofing
- > Anti-DoS attacking
- ARP/IP anti-spoofing
- IP Source Guard
- ACL

Service security

- > DHCP service security
- MAC address anti-flapping
- Port separation: Uplink port/User port
- Broadcast packets isolation based on VLAN

System security

- L4 port disable
- CPU protocol packet rate limit and scheduling



OAM Features

- Operator security, Multi-privileged operator, FTP/TFTP, ACL
- Management protocol and interface: CLI, Telnet ,SNMP v1/v2/v3
- Remote firmware download and upgrade
- Environment detecting, control and alarm
- Performance statistics
- Over-heat protection



Multicast

- IGMP Snooping and proxy (v1/v2/v3)
- MLD v1/v2
- Multicast VLAN
- MVLAN: 4k Multicast VLANs
- Channel Access Control (CAC), Preview (PRV) and Call Detail Record (CDR) for IPTV
- > Global or VLAN protocol enable or disable

- Multicast snooping/proxy, router modes
- ASM/SSM mode based on IGMPv3 and MLDv2
- Less than 20 ms channel zapping delay
- SCB multicast forwarding and L3 multicast forwarding







Working Environment

> Operating temperature: -40 °C ~ 65 °C

> Operating humidity: 5% ~ 95%, non-condensing

> Altitude: ≤ 4000 m

Air pressure: 70 kPa ~ 106 kPa



Power Supply

 \rightarrow Working voltage: DC, -48 V (\pm 20%) / -60 V (\pm 20%)



Dimensions

- > 43.6 mm (H) * 442 mm (W) * 220mm (D)
- > 43.6 mm (H) * 482.6 mm (W) * 220mm (D) (including mounting ears of IEC standard)



Weight

- Cross weight: 7.5 kg(16 GPON), 6.5 kg(8 GPON)
- Net weight: 4.9 kg(16 GPON), 4 kg(8 GPON)

