Leading 5G Innovations

ZXA10 C610 PRODUCT DATASHEET

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



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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.

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🍟 Key Features

- The industry's highest density 1U OLT, provides up to 16 GPON ports and supports up to 2048 FTTH subscribers (1:128).
- 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

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Clock synchronization interfaces

- 1 * 120Ω 2MBits/2Mhz clock and 1PPS+ToD input/output interface
- > 1 * out-of-band management interface

PON Features

GPON

- > GPON is compliant to ITU G.984.x
- Support up to 1:128 optical split ratio
- Transceiver power: Class B+/C+/C+'/C++/D
- Support OLS

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

> 1 * mirroring diagnosis network interface

management and environment monitoring

1 * RS232 serial interface for local

- > 128k MAC address, MAC address management, static MAC, MAC address aging/learning/guery/number limit
- > Uplink protocol: STP/RSTP/MSTP, LACP

QoS Features

- > Queue & scheduling mechanism: SP, WRR, SP+WRR based on Ethernet port or PON port
- > 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)

- Type B optical link protection

 - Support FEC
 - Support AES-128 encryption



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-drifting
- > Port isolation: 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 VLAN
- 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

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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

Working voltage: DC, -48 V (±20%) / -60 V (±20%)

Dimensions

> 43.6 mm (H) * 442 mm (W) * 220mm (D)



Full configuration : < 8kg</p>