ZXA10 C320 Datasheet

Bringing you Closer

With the requirements of communication services increasing, the value-added services (VAS) including 3D network games, video conference/phone, Video on Demand (VoD) and IPTV are key means for operators to provide differential services to attract more subscribers, and gain income growth.

ZTE ZXA10 C320, a small size, full-service optical access convergent platform, provides carrier class QoS and reliable network to meet the requirements for small-scale implementation of FTTx services.

Key Features

- Unified platform for GPON,XG-PON1 and P2P
- Small size and compact design, flexible network and fast deployment
- 2U frame with 2 service slots, compatible with ZXA10 C300 line cards
- Abundant service support capability: IPTV, VoIP, HSI, VPN, mobile backhaul, etc
- Higher security assurance: ONT authentication, user ID identification, port isolation, address binding, packet filtering, and broadcast packet suppression.
- High reliability: key parts redundancy; support Type B and Type C protection for PON downlink and LACP/ UAPS/STP/ERPS for uplink
- Service differentiation: Comprehensive QoS mechanisms for voice, video and high speed Internet services.
- Support DC input redundancy
- Support AC power supply
- Support 1:1 protection for PON interfaces
- Support 1:1 protection for SW (core card) card
- Support 1588V2 and Synchronous Ethernet
- Support embedded OTDR in SFP

Technical Specifications

■ System Architecture

- Capacity
  - GPON up to 32 ports
  - Uplink interfaces up to 4 *GE (Optical)+2*GE(Electronic) or 2*10GE(Optical)+2*GE(Optical)+2*GE(Electronic)
- Chassis Configuration (19")
  - Total 5 slots
  - 2 slots for universal line cards
  - 2 slots for switch& control cards
  - 1 slot for fan module
- Subscriber Card Density
  - GPON card: 8/16 ports per card
  - XG-PON1 card: 8 ports per card
  - P2Pcard: 24/48 ports per card

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- Subscriber Card Density
  - ➢ GPON card: 8/16 ports per card
  - ➢ P2P card: 24/48 ports per card
  - ➢ XG PON1 card: 8 ports per card
- Uplink interface card
  - ➢ 4*10GE uplink per card
  - ➢ 2*10GE+2*GE uplink per card
  - ➢ 4*GE uplink per card
  - ➢ 1*STM-4/OC12 or 2*STM-1/OC3 TDM uplink per card
  - ➢ 32* E1/T1 uplink card (balanced and unbalanced)
- Environment detecting card
  - ➢ 2 * Hz/Bit external clock interfaces
  - ➢ 5 * Environment detecting interfaces

■ PON Features

- GPON compliant with ITU G.984.x
- P2P compliant with ITU G.985/G.986
- XG-PON1 compliant with ITU G.987.x and G.988
- Support up to 1:128 optical split ratio for xPON
- Support OLS (Optical Laser Supervising)
- Physical reach: 20km
- Highly-efficient DBA: NSR-DBA,SR-DBA
- GPON Transceiver power: Class B+ or class C+
- XG PON1 Transceiver power: Class N1 and N2a
- Type B and type C optical link protection
- Support FEC
- Support AES128
- Support SCB
- GPON MCM(Multi-Copy Multicast)
- Support 1550nm for third party CATV broadcasting

■ L2/L3 Features

- 4K VLAN
- 1:1/N:1 VLAN
- 802.1ad, SVLAN, Selective QinQ, VLAN stacking
- Line-speed forwarding
- STP/RSTP/MSTP compliant with IEEE 802.1d/802.1w/802.1s
- Link aggregation IEEE 802.3ad
- DHCP server, DHCP Relay (option 60/82), DHCP proxy
- IPv4/IPv6 dual stack
- L3 routing:
  - ➢ Statistic routing for IPv4 and IPv6
  - ➢ OSPFV2，RIPv1/v2，BGPV4
- RMON II
- Multicast – IPTV
  - ➢ 1K Multicast groups
  - ➢ IGMP Snooping and proxy (v1/v2/v3)
  - ➢ MLD V1/V2，snooping/proxy
  - ➢ MVLAN: 256 Multicast VLAN
  - ➢ Channel Access Control (CAC), Preview (PRV) and Call Detail Record (CDR) for IPTV
  - ➢ Less than 50ms channel zapping delay
- QoS
  - 8 queues per port
  - Queue & scheduling mechanism: SP, DWRR, SP+DWRR
  - DSCP labeling and relabeling
  - Stream classification, rate limiting, shaping and priority setting

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- Traffic statistics
- Service based rate limit
- WRED and triple color
- SLA: CIR, PIR, EIR
- Security
    - L2- L4 ACL
    - IP and MAC source guard
    - Resistance against DOS attacks
    - MAC/IP anti-spoofing (MAC binding, IP binding, DHCP snooping)
    - Anti-flooding: broadcast packet suppression, IGMP packet suppression, DHCP packet suppression
    - MAC address number limit based on VLAN or GEM-port or xGEM-port
    - Port mirroring
    - User port identification such as PPPOE+ and DHCP Option 82

■ O&M

- Operator security, Multi-privileged operator, SSH v1/v2, FTP/TFTP, ACL
- Management protocol and interface: CLI, Telnet ,SNMP V1/V2C/V3, MIBII
- Remote firmware download and upgrade
- Environment detecting, control and alarm
- Performance statistics
- Over-heat protection

■ Environment

- Operating temperature: -25 ºC ~ +55 ºC
- Operating humidity: 5% ~ 95%, non-condensing

■ Power Supply

- Working voltage: -48 V ($\pm$20%) or : -60 V ($\pm$20%)

■ Dimensions

- 449.2mm (H) * 535mm (W) * 270mm (D) (21 inch shelf)
- 443.7mm (H) * 482.6mm (W) * 270mm (D) (19 inch shelf)
- 2200 mm (H) x 600 mm (W) x 300 mm ((D) (Rack)

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