

## 2U, 256-line SLV new-generation high-bandwidth access platform ---- ZXA10 9806V

Pressured by increased TCO (total cost of ownership), carriers began to reconsider the value of legacy infrastructure and continued to develop copper technology to provide FTTH-like bandwidth without extra investments in the last mile.

To cater for the carriers' requirements, ZTE launched the ZXA10 9806V, a 2U copper-based integrated access product that supports Vectoring to cancel crosstalk between lines, the main factor that affects bandwidth

provided over copper wires, and enables user lines within the entire bundle to achieve crosstalk-free performance.



### Key Features

- **Multi-service access :** ADSL2/2+, ADSL2 Combo, VDSL2/VDSL2 Vectoring, VDSL2 Combo, POTS
- **System-level VDSL2:** unprecedentedly extend copper horizon to multi play
- **Highest integration:** up to 256 VDSL2 Vectoring, 128 ADSL2+, 192 VDSL2 Vectoring Combo, 128 VDSL2 Combo, 128 ADSL2/2+ Combo, 256 POTS in 2 U height box
- **Flexible networking:** divers uplinks like EPON, GPON and 10G-EPON fit various application scenarios
- **Abundant service experience:** IPTV ready, service-aware QoS mechanisms
- **Sound security mechanisms:** User ID tractability, port isolation, MFF, packet filtering, broadcast suppression
- **Intelligent end-to-end OAM:** ZTE Easyservice system covers maintenance from NE management, line testing, CPE and home network management
- **Network resiliency:** various network protection mechanisms like LACP, link self-recovery mechanisms
- **Green, eco-friendly:** lower power consumption, harmless material, low noise, long life cycle

### Technical Specification

- **System Architecture**
  - Chassis architecture
    - 4 slots for line card
    - 1 slot for main control card
    - 1 slot for power card
    - 1 slot for co-process card
    - 1 slot for fan
  - Capacity and density
    - ADSL2+: 32ports / card
    - VDSL2 : 32 ports / card
    - VDSL2 Vectoring: 32/64 ports / card
    - POTS: 64 ports / card
    - 128\* POTS+128\* ADSL2+ Combo
    - 128\* POTS+128\* VDSL2 Combo
    - Max 256 L VDSL2 Vectoring/ shelf
    - Max 128 L ADSL2+ /shelf
    - Max 256 L POTS / shelf
  - Network Interfaces
    - 1/2\*GPON
    - 1/2\*EPON
    - 1/2\*10G EPON
    - 10/100/1000M self-adaptation Ethernet
    - 2\* 1000M Ethernet optical interfaces, with synchronous Ethernet



## ■ L2/L3 Features

- 4K VLAN IEEE 802.1q
- PVLAN function
- VLAN stacking, Q in Q
- 16K MAC address list
- IVL, SVL, STP, RSTP and MSTP
- Link aggregation IEEE 802.3ad
- DHCP, DHCP Relay, DHCPv6, DHCP Snooping, DHCP source guard
- Mapping between PVC and VLAN
- Multicast
  - 2K Multicast groups
  - IGMP V1/2/3, IGMP snooping and proxy
  - MVLAN: Multicast VLAN
  - Channel Access Control (CAC), Preview (PRV) and Call Detail Record (CDR) for IPTV
  - Sub 50ms channel zapping delay
- QoS
  - Up to 8 CoS queues at network
  - SLA, Policy, ACL, Congestion avoidance
  - Queue scheduling: SP (strict priority), WRR (weighted round robin), or SP+WRR
  - IPv4 routing protocol
  - Traffic classification, rate limiting, shaping and priority setting
  - Traffic profile
- Security
  - filtering based on L2, L3 and L4
  - IEEE 802.1x subscriber authentication
  - Anti DOS attacks
  - Broadcast suppression
  - Port mirroring
  - Anti-spoofing of MAC address, MAC learning limitation, MAC address filter
  - User port identification: PPPOE intermediate agent, DHCP Option 82, VBAS
  - SSH V1/2

- Supporting source MAC and IP address binding

## ■ VoIP

- H.248, MGCP, SIP
- Coding: G.711, G.729 a/b, G.723.1, G.726
- G.168 echo suppression
- VAD and CNG
- RFC 2833 DTMF
- T.30 VBD FAX, T.38 FAX Relay

## ■ Interface Specification

- xDSL Interface
  - ANSI T1.413, ITU-T G.992.1 (G.dmt), G.992.2 (G.lite), ITU-T G.992.3, G.992.5
  - ITU-T G.993.2 (VDSL2)
- PON interface
  - IEEE 802.3ah EPON
  - ITU-T G.984 GPON
  - IEEE 802.3av 10GEPON
- Ethernet interface
  - IEEE 802.3z
  - IEEE 802.3ab

## ■ O&M

- SNMP V1/V2/V3, SNMP proxy
- Remote firmware download and upgrade
- Online test support for SELT/DELT/MELT test
- Remote modem management
- Environment checking, control and alarm

## ■ Environment

- Operating temperature: -40 °C ~ +65 °C
- Operating humidity: 5% ~ 95% no condensation
- Atmospheric pressure: 70~106Kpa

## ■ Power

- -48VDC (-57V ~ -38.4V) or 220/110VAC (88V ~ 290V)

## ■ Dimension

- 29.5mm x 129 mm x 215 mm (H × W × D)