

ZTE ZXA10 C300

GPON OPTICAL ACCESS PLATFORM

In the face of increasing demands for high bandwidth and multi play services, operators have to make a balance between economy and mass roll out. Operators are considering building a PON network that is green, future proof and save TCO.

ZXA10 C300, the world's first future proof and largest capability optical access platform is developed with mass optical access roll out as well as economy in mind. Its powerful functions and high performance make mass FTTx roll out easier than ever before.



- Unified platform for GPON/XGPON1 and P2P
- Large capacity and high density
- Futureproof: support NG-PON, like XGPON1, TWDM PON
- Abundant service support capability: IPTV, VoIP, HSI, VPN, mobile backhaul, etc
- Diverse interfaces: P2MP, P2P and TDM interfaces can also be provided for business and residential application
- Higher security assurance: ONT authentication, user ID identification, port isolation, address binding, packet filtering, and broadcast packet limitation
- Service differentiation: Comprehensive QoS mechanisms for voice, video and high speed Internet services
- High reliability: key parts redundancy; support Type B and Type C protection for PON downlink and LACP/ STP/UAPS/ERPS for uplink
- Support 1588V2 and Synchronous Ethernet
- Support embedded OTDR in SFP

SPECIFICATIONS

SYSTEM ARCHITECTURE	L3 ROUTING
CHASSIS CONFIGURATION (21")	Statistic routing for IPv4 and IPv6 OSPFV2, RIPv1/v2, BGPV4
Total 23 slots	RMON II
16 Slots for Universal Line Cards	MULTICAST-IPTV
Two Slots for Switch & Control Cards	1K Multicast Groups
Two Slots for Power Cards	IGMP Snooping and Proxy (v1/v2/v3)
Two Slots for Uplink and Cascading Interfaces	MLD V1/V2, snooping/proxy
One Slot for Environment Detecting Card	MVLAN: 256 Multicast VLAN
CHASSIS CONFIGURATION (19")	Channel Access Control (CAC), Preview (PRV) and Call Detail Record (CDR) for IPTV
Total 21 Slots	Less than 50ms Channel zapping delay
14 Slots for Universal Line Cards	QOS
Two Slots for Switch& Control Cards	Eight Queues per Port
Two Slots for Power Cards	Queue & Scheduling Mechanism: SP, DWRR, SP+DWRR
Two Slots for Uplink and Cascading Interfaces	DSCP Labeling and Relabeling
One Slot for Environment Detecting Card	Stream Classification, Rate Limiting, Shaping and Priority Setting
SUBSCRIBER CARD DENSITY	Traffic Statistics
GPON Card: 8/16 Ports per Card	Service based Rate Limit
P2P Card: 24/48 Ports per Card	WRED and triple Color
XG PON1 Card: Eight Ports per Card	SLA: CIR, PIR, EIR
UPLINK INTERFACE CARD	SECURITY
4*10GE Uplink per Card	L2-L4 ACL
2*10GE+2*GE Uplink per Card	IP and MAC Source Guard
4*GE Uplink per Card	
1*STM-4/OC12 or 2*STM-1/OC3 TDM Uplink per Card	

32* E1/T1 Uplink cCard (balanced and unbalanced)	Resistance against DOS Attacks
ENVIRONMENT DETECTING CARD	MAC/IP Anti-spoofing (MAC binding, IP binding, DHCP snooping)
2 * Hz/Bit external Clock Interfaces	Anti-flooding: Broadcast Packet Suppression, IGMP Packet Suppression, DHCP Packet Suppression
5 * Environment detecting Interfaces	MAC Address Number Limit based on VLAN or GEM-Port or xGEM-Port
PON FEATURES	Port Mirroring
GPON compliant with ITU G.984.x	User Port Identification such as PPPOE+ and DHCP Option 82
P2P compliant with ITU G.985/G.986	O&M
XG-PON1 compliant with ITU G.987.x and G.988	Operator Security, Multi privileged Operator, SSH v1/v2, FTP/TFTP, ACL
Support up to 1:128 optical Split Ratio for xPON	Management Protocol and Interface: CLI, Telnet ,SNMP V1/V2C/V3, MIBII
Support OLS (Optical Laser Supervising)	Remote Firmware Download and Upgrade
Physical reach: 20km	Environment Detecting, Control and Alarm
Highly efficient DBA: NSR-DBA,SR-DBA	Performance Statistics
GPON Transceiver Power: Class B+ or class C+	Over Heat Protection
XG PON1 Transceiver Power: Class N1 and N2a	ENVIRONMENT
Type B and Type C optical Link Protection	Operating Temperature: -25 °C ~ +55 °C
Support FEC	Operating Humidity: 5% ~ 95%, non condensing
Support AES128	POWERSUPPLY
Support SCB	Working Voltage: -48 V (±20%) or: -60 V (±20%)
GPON MCM(Multi-Copy Multicast)	DIMENSIONS
Support 1550nm for third Party CATV Broadcasting	449.2mm (H)* 535mm (W)* 270mm (D)(21 inch shelf)
L2/L3 FEATURES	443.7mm (H)* 482.6mm (W)* 270mm (D)(19 inch shelf)
4K VLAN	2200 mm (H)x600 mm (W)x300 mm ((D) (Rack)
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	