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ZXDSL 9806H Datasheet



In replacement of Copper Cables by Optical Fibers+ projectsq construction, ZTE can provide comprehensive solutions for carriers, including high speed experience, triple-play services as well as traditional network migration. Via ZXDSL 9806H, traditional services which have been borne by copper cables, such as ISDN, DDN and CES services, can migrate to PON network smoothly. This solution provides an integrated scheme for carriers in network transformation and convergence.

ZXDSL 9806H is designed as an all-service access platform which works not only as a traditional mini DSLAM but also works for FTTB, FTTC/FTTCab solution, and provides multiple networking formats such as xPON or GE uplink and VDSL2/ADSL2+/FE and POTS downlink. It is widely used in multi-service bearing networks by domestic and international top-end carriers due to its carrier-class operation and management multicast system and powerful QoS properties.



ZXDSL 9806H Features:

- Unified platform for ADSL2+/VDSL2/SHDSL/POTS/FE/GE/ISDN
- 2U frame with 6 slots, Small size and compact design
- Abundant uplink interface: EPON/10G EPON/GPON/GE/FE
- Flexible network deployment: application in FTTx with PON, cascade, QinQ/VLAN stacking, ring, etc
- Abundant service support capability: IPTV, VoIP, HSI, VPN, mobile backhaul, etc
- Higher security assurance: port isolation, MAC/IP address binding, packet filtering, and broadcast packet suppression.
- Comprehensive QoS mechanisms for voice, video and high speed Internet services.
- Unique system architecture and good layout design enable system power consumption to decrease dramatically, single port and whole equipment by 20% than equipment of similar type. This advantage gains appreciations of international carriers.
- Won lots of awards: InfoVision Award+by BBWF in 2007, Best Green Innovation+Award in SOFNET high-end forum organized by IEC in London, Science and Technology Progress+Award in Guangdong China in 2008, No.1 DSLAM Equipment Worldwide+by Current Analysis.

ZXDSL 9806H Technical Specifications

Interface Function

6 slots; 1 for control card, 1 for power supply card, 4 for service cards

Uplink ports (line terminal):

- EPON interface (SC/PC)
- GPON interface (SC/PC)
- 10G EPON interface (SC/PC)
- FE or GE

User network interface:

- ADSL2/2+
- VDSL2
- SHDSL
- POTS
- FE/GE
- E1/ISDN

Common interfaces:

- environment monitoring interface
- management interface
- maintenance serial interface

Transmission features

ADSL2/2+:

- Uplink rate: up to 1Mbps, downlink rate: up to 26Mbps
- The maximum transmission distance: 6.5km

VDSL2:

- Uplink rate: up to 100Mbps, downlink rate: up to 100Mbps
- The maximum transmission distance: 6.5km

SHDSL:

- 2-wires: symmetrical 200 Kbps~2312 Kbps
- 4-wires: symmetrical 400 Kbps~4624 Kbps
- The maximum transmission distance: 6.5km

EPON:

- Symmetrical 1.25Gbps for uplink and downlink
- The maximum transmission distance: 20km
- Transmission Wavelength: Transmitting: 1310 nm, Receiving: 1490 nm

GPON:

- Uplink rate: 1.244Gbps, downlink rate: 2.488Gbps
- The maximum transmission distance: 20km

➢ Transmission Wavelength:

Transmitting: 1310 nm, Receiving: 1490 nm

10G EPON:

- Uplink rate: 1Gbps/10Gbps, downlink rate: 10Gbps
- The maximum transmission distance: 20km

Transmission Wavelength:

Transmitting: 1310nm/1270nm, Receiving : 1577nm

Service Function

Service: VoIP, Internet, IPTV

SIP/H.248/MGCP

Codec: G.711a/u, G.729a/b, G.723.1

Auto registration at power-on

802.1q and 802.1p,802.1d

MAC addresses

STP, RSTP

IGMP snooping/proxy and controllable multicast

Support SP, WRR and SP+WRR

Loop back test for user ports

DBA and FEC

Priority queues and scheduling

VLAN Trunking and Stacking

Automatic L2 learning and aging

Support on-line version upgrade

Support IGMP Snooping, IGMP V1/V2, multi-cast VLAN, CAC, CDR, and PRV

Support up to 1k multi-cast channels and 4 MVLAN

Support PPPoA transform to PPPoE

Support T.30 VBD

Support T.38

Support VBD Modem

Security

L2- L4 ACL

IEEE 802.1x subscriber authentication

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

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

Remote firmware download and upgrade

Environment monitoring, control and alarm

Environment

Operating temperature: -10 °C ~ +55 °C

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

Power Supply

Working voltage: -48 V DC (±20%) or 110V/220V AC (±20%, 50Hz)