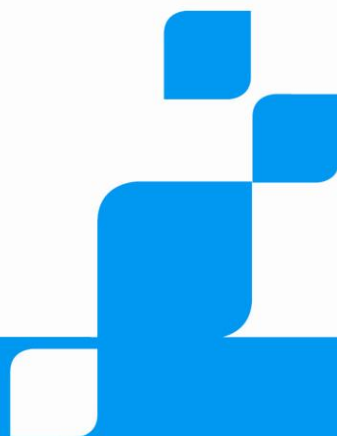




Operator Logo

# ZXDSL 9806H Product Introduction





## ZXDSL 9806H Product Introduction

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V1.00	2008/12/22	Wang Xinsheng		Not open to the Third Party
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# 1 Overview

ZXDSL 9806H is a type of multi-service access integration equipment based on IP. ZXDSL 9806H is designed as an all-service access platform which works not only as a small-scaled traditional DSLAM but also works for FTTB, FTTC/FTTCab solution, and provide multiple networking formats such as xPON and GE uplink and VDSL2/ADSL2 and FE downlink. Via ZXDSL 9806H, traditional services which have been bear by copper cables, such as ISDN, DDN and CES services, can migrate to PON network smoothly in “Replacement of Copper Cables by Optical Fibers” projects’ construction. This solution provides an integrated scheme for carriers in network transformation and convergence.

It is widely used in multi-service bearing networks by top-end carriers due to its carrier-class operation and manageable multicast system and powerful QoS properties.

Figure 1-1 ZXDSL 9806H Overview



# 2 Features

- Green, Energy Saving, Environment-friendly
  - Lowest consumption in industry, port average power consumption 30% less than EU COC
  - Low noise, adjustable speed quiet fan
  - Harmless materials
- Full service, Variety Uplink Interface, Flexible Network
  - “Small size, big heart” :

- Support up to 128 lines ADSL2+/VDSL2 or 256 lines VOIP or 64 FE ports or 64 lines SHDSL or 32lines ISDN BRI or 16 lines ISDN PRI in 2U-height space
- Variety Uplink :
- Support variety uplink interface, such as GE/FE, EPON/GPON, EPON+GE, GPON+GE, 10G EPON. It can migrate to support 10G EPON smoothly.
- Flexible Network :
- Support P2P, P2MP, and star, chain, ring of network, meet the requirement of various network and service.
- High Reliability, Strong environment self adaptability
  - Support AC/DC, AC + Battery, covers all types of power supply environment: AC power to support 85V~294V, suitable for variety of harsh environments.
  - Excellent high temperature performance, stable working in wide temperature range: -30~60°C without any auxiliary equipment.
  - Reliable lightning protection design, the power and user interfaces can against over-voltage 6KV.
  - Smart feed technology: prolong time of voice services endurance by shutting off broadband services when battery begins to supply power in POP site.
- High Maintainability, Low OPEX
  - Automatic remote monitoring, unattended.
  - Multiple remote adjustment and test methods: support broadband port loop check and POTS internal and external line check.
  - OLS check: support fiber breakage check, optical linkage test and diagnosis, auxiliary fiber trouble positioning and troubleshooting.
  - Real-time and remote environment surveillance including temperature, power and door alarm.

- Leading Technology, Won lots of awards, Star Product:
  - The first small capacity DSLAM/MDU in the industry, global deployment are up to 50 million lines, the most widely used in the industry.
  - The leading of VDSL2: It's the first DSLAM/MDU, which support all VDSL2 profile in one VDSL2 board include 8b, 12a, 17a, 30a etc.
  - 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.

Figure 2-1 awards



### 3 Specifications

Table 3-1 ZXDSL 9806H Specifications

Parameter	Value
Dimensions	240 mm x 482.6 mm x 88.1 mm (Width x Height x Depth)
Weight	8.5 kg (full configuration)
Service Node Interface(SNI)	One of nine selectable SNI interfaces: 1. Two FE(Optical/Electric) 2. One FE(Optical)+One FE(Electric) 3. Two GE(Optical/Electric) 4. One GE(Optical)+One GE(Electric) 5. One EPON(Optical)



Parameter	Value
	6. Two EPON(Optical) 7. One EPON(Optical) and One GE(Electric) 8. One GPON(Optical) 9. Two GPON(Optical) 10. One 10GEPON(Optical) 11. Two 10GEPON(Optical)
User Network Interface(UNI)	ADSL2+: 24 Line/Card, 32 Line/Card, SHDSL: 24 Line/Card SHDSL.bis: 16 Line/Card VDSL2: 16 Line/Card,24 Line/Card,32Line/Card POTS: 48 Line/Card,64 Line/Card, ETH: 16FE、2GE(Electric)+14FE(Electric), 2GE(O) + 12FE(O) ISDN: 8-line U interface (1* SCSI 50)(BR) E1 : 4-line PRI interface (COAX/RJ45)
Noise	51.5 dBa at fan's full level (3000rpm) 39.4 dBa at fan's full level (1800rpm) 26.2 dBa at fan's full level (900rpm)
Heat ventilation	Built-in adjustable speed fans, active heat ventilation
Power supply	DC working voltage: - 48V DC, ranging from - 40V DC to -57V DC AC working voltage: 110V AC / 220V AC, ranging from 90V AC to 286V AC
Application environment & installation method	Indoor and outdoor application, rack installation or information box, outdoor cabinet installation in compliance with 9806H requirements
Environment temperature	-30℃- 60℃
Environment humidity	5% - 95% (no condensation)
Cleanliness	Dust concentration with a diameter of greater than 5 um is equal to or less than $3 \times 10^4$ particles / m <sup>3</sup> , and the dust should not be electronically conductive, magnetically conductive or erosive.
Atmospheric pressure	70 – 106 Kpa

Table 3-2 ZXDSL 9806H Key Technical Specifications

<b>Parameter</b>	<b>Value</b>
VLAN list	4 K
Q-VLAN ID, C-VLAN ID, S-VLAN ID range	1 – 4094
VLAN translation list	2 K
Multicast list	2 K
MVLAN number	4
MAC address list capacity	8 K
MAC address number limit	1 - 16 / port
ACL	2 K
MTBF	150000 hours
MTTR	30 minutes