

## **P-872H VDSL2 Modem**

# **Triple-play Services with VDSL over Existing Phone Lines**

### **Key Features**

- Work in conjunction with VES-1616F-44 or VES-1624F-44
- Solutions to meet the demands of triple play service
- Field proven by tier one CO suppliers

### **Benefits**

#### **DMT Modulation- Standard Compliance and Outstanding Performance**

ZyXEL P-872H is a DMT(Discrete Multi-Tone)-based VDSL CPE. DMT modulation dynamically adapts the bit rate to conditions on the local loop and offers excellent performance even over noisy lines. This eliminates manual line testing and reduces equipment adjustment to accommodate the noisy line condition. In addition, DMT is the selected VDSL line-coding standard by the IEEE 802.3ah Ethernet in the First Mile(EFM) Task Force and IEEE T1E1.4 Working Group .

#### **150 Mbps Bandwidth Aggregated for Triple Play over Existing Copper Wires**

With VDSL, telephone companies can offer triple play services (such as high-quality digital video streams, high-speed Internet access, and voice services) over existing copper wiring. This allows them to offer the user experience similar to today' s other existing distribution systems (cable, terrestrial, satellite). Thus VDSL gives telephone companies the competitive edge while generating revenue with a minimal amount of installation time and expense.

#### **Co-existence with Plain Old Telephone Service (POTS), ISDN and Digital Phones**

VDSL can be deployed quickly, even if there is only one phone line per tenant. You can still keep existing POTS or ISDN services while adding new VDSL services.

#### **QoS for Multiple Services Ensured**

The bandwidth control feature with different class of services on the P-872H guarantees QoS based on multicast priority, 802.1p, TOS and DSCP.

## Specifications

### System Specifications

#### Line Rate

- Set by VDSL switch
- Asymmetric speeds ranging up 100/50 Mbps

#### Network Management

- Command-line Interpreter (CLI)
- MAC filtering

#### Support

- ANSI Plan 998
- IEEE 802.3/3u/3x
- Flow control in full duplex mode
- Back pressure in half duplex mode
- 802.1q VLAN, tag-based and port-based
- 802.1p QoS, 4 queues support
- Ethernet over VDSL bridging
- IGMP snooping
- Broadcast control
- Multicast drop/ flooding
- ITU-T G.993.1 power back-off

#### Hardware Specification

- VDSL port: RJ-11 connector x 1
- POTS interface: RJ-11 connector x 1
- Console interface: RJ-11 connector x 1
- LAN: 10/100 Base-Tx Fast Ethernet port (RJ-45) X 4
- One Reset Button
- One Power on/off Switch
- Status LEDs Indicator (Alarm surveillance)
- Power 18V AC
- Built-in 600ohm POTS Splitter & External E TSI POTS/ISDN splitter
- In-line filter: Additional Micro filter x3

#### Physical Specification

- Dimensions: 260(W)X 161(D)X 51(H)mm
- Weight: 500 g

### **Environmental Specification**

- Temperature: 0°C ~ 50°C
- Humidity: Less than 95% RH ( non-condensing)