# ZyXEL

# Next Generation Modem for Triple-play Services

- **IP-based VDSL2 High-Speed Internet Access**
- **Support 3/4 Bands**
- **Support Downstream/Upstream Rate of up to 65/35 Mbps**
- **IEEE 802.1Q Defined Tag-based VLAN and Port-based VLAN**

## Benefits

### Ultra-high Data Rate at Up to 65 Mbps

With up to 65 Mbps for downstream and 35 Mbps for upstream bandwidths, the P-870MH-C1 offers higher data transfer rates and provides bigger bandwidth than traditional ADSL gateways.
A bigger bandwidth allows small to medium business users to enjoy quality symmetric and asymmetric applications and home users can enjoy smooth media-rich entertainment which was previously unavailable.

### Advanced Quality of Services (QoS) for Triple Play Services

The inherent advanced Quality of Service (QoS) features of VDSL2 makes the P-870MH-C1 to be an idea access modem for service provider to deliver "triple play" multimedia services such as high-quality digital video streams, high-speed Internet access, and voice services which are competitive to the services provided by cable and satellite operators.

### VLAN Support for Broadband Services

The VLAN feature in the P-870MH-C1 offers both security and performance benefits. For example, various priorities can be assigned to different real-time as well as Internet access applications via VLAN tagging.
Such control enables service providers to offer different broadband services to a large number of customers more quickly and economically.

### Operate Over Existing Copper Wires

Telecom carriers can generate revenues by offering bundled services to successfully compete with what cable operators have to offer. A single network can be maintained to provide complete DSL services with minimal installation time and expense.

**VDSL2 Modem**

P-870MH-C1

VDSL2 | 10/100 802.3 | Bridge Mode

VDSL

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## Specifications

### System Specifications

**VDSL Compliance**
- Duplex Method: DMT
- One VDSL Line
- Ethernet over VDSL
- G.993.1 VDSL
- G.993.2 VDSL2 (Profile 8a, 8b, 8c, 8d and 12a support)
- Band Plan 997 and 998 supports
- Support 3/4 band
- Support Up to 65 Mbps downstream and 35 Mbps upstream
- LR-VDSL2 support
- Power Back-off

**Support**
- IEEE 802.3/3u/3x
- Flow control in full duplex mode
- Back pressure in half duplex mode
- 802.1Q Tag-based VLAN and Port-based VLAN
- 802.1P QoS, 2 queues support
- IGMP snooping
- Broadcast control
- Multicast drop/flooding
- MAC filtering

**Network Management**
- Command-line Interpreter (CLI)
- SNMP Support
- EOC/FTP firmware upgrade

### Hardware Specifications
- VDSL: One RJ-11 or RJ-45 Port
- LAN: 4-Port Switch, 10/100M Auto MDI/MDIX
- Status LEDs Indicator
- One Reset Button
- One power on/off Switch
- Power: 12 VAC, 1.25 A

### Physical Specifications
- Dimensions: 205 (W) x 160 (D) x 45 (H) mm
- Weight: 470 g

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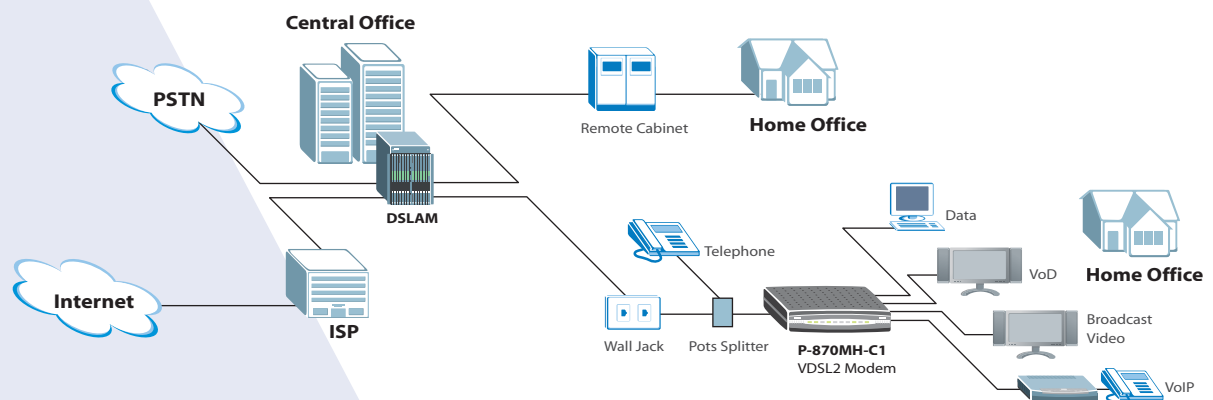- Humidity: Less than 95% RH (non-condensing)

### Certification

**EMC**
- FCC Part 15 Class B
- EN 55022 Class B
- EN 55024

**Safety**
- CAN/CSA-C22.2 No. 60950-1-03
- ANSI/UL Std No 60950-1, 1st Ed.
- EN 60950-1, 1st Ed.
- IEC 60950-1, 1st Ed.

## Application Diagram



For more product information, visit us on the web www.ZyXEL.com

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