

# ZyXEL



## High-Speed VDSL Point-to-Point Solution

- **IP-based VDSL2 High-Speed Internet Access**
- **High Data Rates of Up to 80/40 Mbps**
- **Ethernet Distance Extension**
- **Selectable CO/CPE Modes via a Hardware Switch**

### Benefits

#### Ultra-high Data Rates of Up to 80/40 Mbps

With downstream bandwidths of up to 80 Mbps and 40 Mbps upstream, ZyXEL P-871M offers higher data transfer rates and provides larger bandwidths than traditional ADSL gateways. The expanded bandwidth allows small-to-medium business users to enjoy quality symmetric and asymmetric applications like video conventions and file exchange services, etc. that were previously unavailable.

#### Operations over Existing Copper Wires and Co-existence with POTS/ISDN Services

As VDSL provides much higher bandwidth than other DSL technologies, it enables service providers to offer a variety of value-added services ranging from broadband Internet access to bandwidth-consuming video applications over the existing telephone wires.

The P-871M can be implemented quickly, even if there is only one phone line; and users can also keep the current POTS or ISDN services while adding new VDSL services.

#### Revenue Generation with Minimum Installation Cost

Most small business users need simple and quick connectivity with VDSL technology to easily take advantage of the high speed. A pair of P-871M allows service providers to offer point-to-point services such as building-to-building or office-to-office connections, or to serve buildings containing only a small number of subscribers easily with no additional configuration required.

With just simple plug-and-play, users can set one P-871M in the pair as the CO and the other as the CPE modem to support high-bandwidth services as new revenues are generated with minimum installation time and expense.



VDSL Point-to-Point Modem

P-871M



# VDSL



## Specifications

### System Specifications

#### VDSL Compliance

- Duplex Method: DMT
- Ethernet over VDSL
- ITU.T G.993.1 VDSL1
- ITU.T G.993.2 VDSL2 (Profile 8a, 12a)
- Band Plan 997 and 998 support
- Support 3/4 bands and U0 band
- Support Up to 80 Mbps downstream and 40 Mbps upstream
- Selectable CO or CPE mode

#### Network Protocol

- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3u 100Base-Tx Ethernet
- IEEE 802.3x Flow control
- IEEE 802.1D transparent bridging
- Flow control in full duplex mode
- Back pressure in half duplex mode

#### Management

- CLI command via console
- System control VDSL line rate and status through CO mode
- FW upgrade via console

### Hardware Specifications

- WAN: one RJ-45 interface for VDSL (over POTS/ISDN)
- LAN: one 10/100 Auto MDI/MDI-X RJ-45 interface
- Power Switch: one Push type button
- External console port: one DB9 interface
- Selectable CO and CPE via Switch button
- Status LEDs indicator

### Physical Specifications

- Dimensions: 189 (W) x 132 (D) x 40 (H) mm
- Weight: 307 g

### Power Requirements

- 9 V AC 1000 mA
- Power supply: 120 V/230 V/240 V

### Environmental Specifications

#### Operating Environment

- Temperature: 0°C ~ 40°C
- Humidity: 20% ~ 85% (non-condensing)

#### Storage Environment

- Temperature: -20°C ~ 60°C
- Humidity: 20% ~ 90% (non-condensing)

### Certification

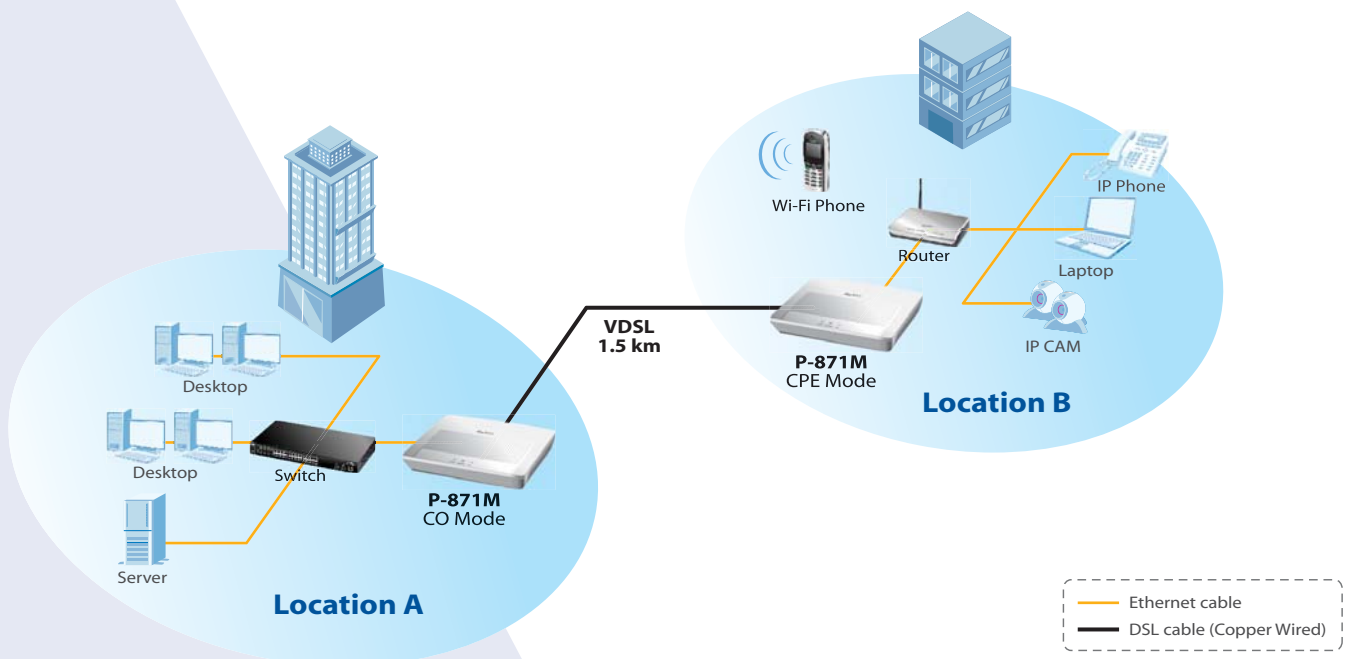
#### EMC

- EN55022 Class B
- EN61000-3-2: 2000
- EN61000-3-3: 1995+A1: 2001
- FCC Part 15 (Class B)

#### Safety

- CSA 60950-1
- UL 60950-1
- EN 60950-1: 2001+A11
- IEC 60950-1: 2001

## Application Diagram



For more product information, visit us on the web at [www.ZyXEL.com](http://www.ZyXEL.com)