ZyXEL

High-Speed VDSL Point-to-Point Solution

- IP-based VDSL2 high-speed Internet access
- High date 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 services 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

VDSL2   Bridge Mode   10/100 802.3

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: one10/100 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 (WxDxH):
  189 x 132 x 40 mm (7.44"x5.20"x1.57")
- Weight: 307 g (0.68 lb.)

Power Requirements

- 12 V DC 1A
- Power supply: 120 V/230 V/240 V

Environmental Specifications

Operating Environment

- Temperature: 0ºC to 40ºC (32ºF to 104ºF)
- Humidity: 20% to 85% (Non-condensing)

Storage Environment

- Temperature: -20ºC to 60ºC (-4ºF to 140ºF)
- Humidity: 20% to 90% (Non-condensing)
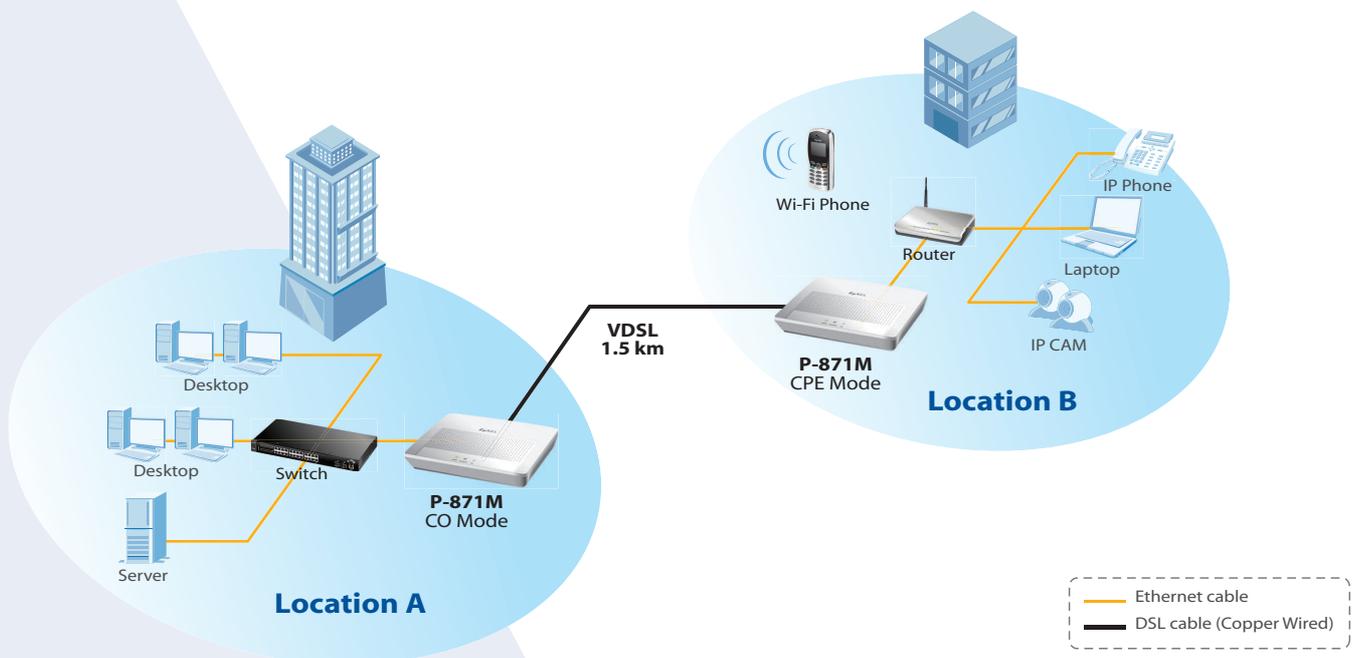
Certification

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

VDSL 1.5 km

P-871M CPE Mode

Wi-Fi Phone

Router

IP Phone

Laptop

IP CAM

Location B

Desktop

Desktop

Switch

Server

P-871M CO Mode

Location A

Ethernet cable
DSL cable (Copper Wired)

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

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