ZyXEL

ZyXEL green
www.zyxel.com/green

- **802.11n AP function built-in (1x1) - Standard-based WPS for easy and secure WLAN establishment**
- **Robust SPI firewall protection**
- **Effective bandwidth management for triple-play applications**
- **Remote provisioning and management through TR-069**

P-660N/HN-TxA Series
802.11n Wireless ADSL2+ 4-port Gateway

150 Mbps Ultra High Speed 802.11n ADSL2+ Wireless Gateway

Benefits

802.11n Technology for extreme performance and coverage
The P-660N/HN-TxA Series featuring 802.11n Technology provides the ultimate solution for speed and coverage. With data rate up to 150 Mbps, the P-660N/HN-TxA Series provides stable and reliable wireless connections for high-speed data and multimedia delivery. It eliminates dead zones and extends coverage by using IEEE 802.11n technology and is backward compatible with any IEEE 802.11b/g Wi-Fi certified device.

WPS (Wi-Fi Protection Setup)
Wi-Fi Protected Setup (WPS) is a standard for easy and secure establishment of wireless networks. With WPS, the device will automatically configure a wireless network with a network name (SSID), strong WPA data encryption and authentication. WPS makes the configuration of secure personal wireless networks as simple as pushing a button or entering a Personal Identification Number (PIN) code.

Robust SPI Firewall Security
The SPI Firewall works on the network layer by examining header and footer of a packet, and it also ensures the packet belongs to a valid session. Based on Stateful Packet Inspection (SPI), DoS (Denial of Service) and DDoS features, the P-660N/HN-TxA Series provides the first-line defense against hackers, network intruders and other harmful threats.

Quality of Service (QoS) support
The P-660N/HN-TxA Series comes equipped with essential ATM QoS features. Service providers can freely design their QoS policy and prioritize the mission-critical services such as IPTV and VoIP based on their service plans. This increases network efficiency and productivity to enable service providers to bring real multi-play into the daily life of residential users.

TR-069 remote management
With TR-069 standard management specifications, service providers are able to manage and configure client devices remotely without manual intervention from end users. This unique feature not only offers true "plug-and-play" experience but also reduces the complexity of deployment, and therefore saves operating and maintenance costs for service providers.

Wireless Scheduling | Firewall | TR-069 | ADSL2+ | WPS | with some n features

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P-660N/HN-TxA Series
**802.11n Wireless
ADSL2+ 4-port Gateway**

Specifications

System Specifications

ADSL Compliance
• ITU 992.1 (G.dmt)
• ITU 992.3 ADSL2 (G.dmt.bis)
• ITU 992.5 ADSL2+
• Reach-Extended ADSL (RE ADSL)
• Annex L/M support

WLAN
• IEEE 802.11n compliance, backward compatible
  with 11b/g
• Frequency operation: 2.4 GHz
• 64/128 bits WEP data encryption
• WPA/WPA2 (Wi-Fi Protected Access) security
• Support IEEE 802.1x, external Radius server:
   EAP-MD5, TLS, TTLS
• Wireless scheduler
• Wi-Fi Multimedia (WMM)
• WPS (Wi-Fi Protected Setup)

Router
• NAT (Maximum 2048 sessions)
• SIP ALG pass-through
• NAT port forwarding
• PPPoE pass-through
• Dynamic DNS
• IP alias
• DHCP server/client/relay
• RIP I/RIP II support
• IGMPv1 and v2 support
• UPnP support
• 802.1Q/1P

Firewall
• Stateful Packet Inspection (SPI)
• Denial of Service (DoS) prevention

Security
• Multiple VPN (IPSec, PPTP) pass-through
• Packet filtering
• URL keyword blocking

Management
• Embedded Web configuration
• TR-069 HTTPS support
• Logs and statistics
• SNMP v1 and v2 with MIB II
• Remote management control: Telnet, FTP, Web,
  SNMP, and DNS
• CLI command via Telnet/console

Hardware Specifications
• ADSL port: 1 x RJ-11 for P-660N/HN-T1A;
  1x RJ-45 for P-660N/HN-T3A
• Ethernet port: 4 x RJ-45 (P-660HN-TxA Series
  only)
• Power input (12 V DC 1 A)
• Power switch button
• Reset button
• WPS and WLAN on/off hardware button
  (coexisting)
• Single 3.5 dbi internal antennas
• LED displays
  - Power
  - Ethernet (1-4)(P-660HN-TxA Series only)
  - WLAN/WPS
  - DSL
  - Internet

Physical Specifications
• Item weight:
  - P-660HN-TxA: 215 g (0.48 lb)
  - P-660N-TxA: 200 g (0.45 lb)
• Item dimensions:
  133 (W) x 61 (D) x 163 (H) mm
  (5.23 (W) x 2.4 (D) x 6.42 (H) inches)
• Packing weight:
  - P-660HN-TxA: 520 g (1.15 lb)
  - P-660N-TxA: 500 g (1.11 lb)
• Packing dimensions:
  240 (W) x 178 (D) x 73 (H) mm
  (9.45 (W) x 7.01 (D) x 2.87 (H) inches)

Environmental Specifications

Operating Environment
• Temperature: 0°C to 40°C
• Humidity: 20% to 85% RH (Non-condensing)

Storage Environment
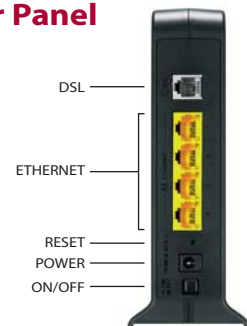• Temperature: -20°C to 60°C
• Humidity: 20% to 90% RH (Non-condensing)
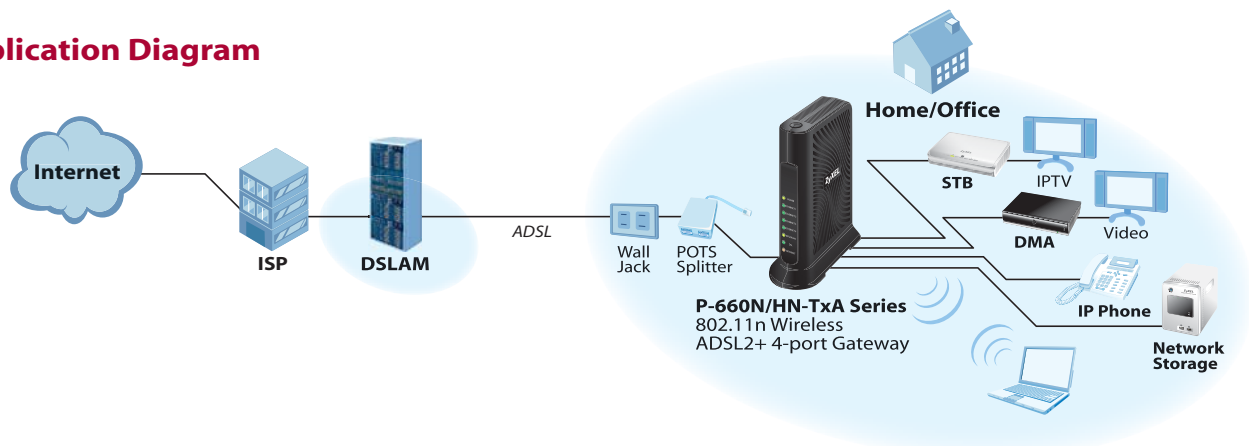
Certification
• Safety: CE, CSA
• EMI: CE, FCC

Product Family Matrix

Model	Ethernet Port	Annex A	Annex B
P-660HN-T1A	4	Yes	-
P-660HN-T3A	4	-	Yes
P-660N-T1A	1	Yes	-
P-660N-T3A	1	-	Yes

Rear Panel

DSL

ETHERNET

RESET
POWER
ON/OFF

Application Diagram

Internet

ISP

DSLAM

ADSL

Wall Jack

POTS Splitter

Home/Office

STB

IPTV

DMA

Video

P-660N/HN-TxA Series
802.11n Wireless
ADSL2+ 4-port Gateway

IP Phone

Network Storage

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