



Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for ZYXEL P-660HN. You'll find the answers to all your questions on the ZYXEL P-660HN in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZYXEL P-660HN
User guide ZYXEL P-660HN
Operating instructions ZYXEL P-660HN
Instructions for use ZYXEL P-660HN
Instruction manual ZYXEL P-660HN

P-660HN-Fx Series

802.11n Wireless ADSL2+ 4-port Gateway

User's Guide

Version 3.70
9/2008
Edition 1

DEFAULT LOGIN	
IP Address	http://192.168.1.1
Admin Password	1234
User Password	user

ZyXEL
www.zyxel.com



[You're reading an excerpt. Click here to read official ZYXEL P-660HN user guide](http://yourpdfguides.com/dref/3685582)
<http://yourpdfguides.com/dref/3685582>

Manual abstract:

It is recommended you use the web configurator to configure the ZyXEL Device. · Supporting Disc Refer to the included CD for support documents. · ZyXEL Web Site Please refer to www.zyxel.com for additional support documentation and product certifications. User Guide Feedback Help us help you. Send all User Guide-related comments, questions or suggestions for improvement to the following address, or use e-mail instead. Thank you! The Technical Writing Team, ZyXEL Communications Corp., 6 Innovation Road II, Science-Based Industrial Park, Hsinchu, 300, Taiwan. @@@@ · "Enter" means for you to type one or more characters and then press the [ENTER] key.

"Select" or "choose" means for you to use one of the predefined choices. · A right angle bracket (>) within a screen name denotes a mouse click. For example, Maintenance > Log > Log Setting means you first click Maintenance in the navigation panel, then the Log sub menu and finally the Log Setting tab to get to that screen. · Units of measurement may denote the "metric" value or the "scientific" value. For example, "k" for kilo may denote "1000" or "1024", "M" for mega may denote "1000000" or "1048576" and so on.

· "e.g.," is a shorthand for "for instance", and "i.e.," means "that is" or "in other words".

4 P-660HN-Fx User's Guide Document Conventions Icons Used in Figures Figures in this User's Guide may use the following generic icons. The ZyXEL Device icon is not an exact representation of your device. ZyXEL Device Computer Notebook computer Server Firewall Telephone Router Switch P-660HN-Fx User's Guide 5 Safety Warnings Safety Warnings For your safety, be sure to read and follow all warning notices and instructions. · Do NOT use this product near water, for example, in a wet basement or near a swimming pool. · Do NOT expose your device to dampness, dust or corrosive liquids. · Do NOT store things on the device. · Do NOT install, use, or service this device during a thunderstorm. There is a remote risk of electric shock from lightning. · Connect ONLY suitable accessories to the device. · Do NOT open the device or unit.

Opening or removing covers can expose you to dangerous high voltage points or other risks. ONLY qualified service personnel should service or disassemble this device. Please contact your vendor for further information. · Make sure to connect the cables to the correct ports. · Place connecting cables carefully so that no one will step on them or stumble over them. · Always disconnect all cables from this device before servicing or disassembling. · Use ONLY an appropriate power adaptor or cord for your device. · Connect the power adaptor or cord to the right supply voltage (for example, 110V AC in North America or 230V AC in Europe). · Do NOT allow anything to rest on the power adaptor or cord and do NOT place the product where anyone can walk on the power adaptor or cord. · Do NOT use the device if the power adaptor or cord is damaged as it might cause electrocution.

· If the power adaptor or cord is damaged, remove it from the device and the power source. · Do NOT attempt to repair the power adaptor or cord. Contact your local vendor to order a new one. · Do not use the device outside, and make sure all the connections are indoors. There is a remote risk of electric shock from lightning.

· Do NOT obstruct the device ventilation slots, as insufficient airflow may harm your device. · Use only No. 26 AWG (American Wire Gauge) or larger telecommunication line cord. · Antenna Warning! This device meets ETSI and FCC certification requirements when using the included antenna(s). Only use the included antenna(s).

This product is recyclable. Dispose of it properly. 6 P-660HN-Fx User's Guide Safety Warnings P-660HN-Fx User's Guide 7 Safety Warnings 8 P-660HN-Fx User's Guide Contents Overview Contents Overview Introduction

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CHAPTER 1 Introducing the ZyXEL Device This chapter introduces the main applications and features of the ZyXEL Device. It also introduces the ways you
can manage the ZyXEL Device. 1.1 Overview The P-660HN-Fx series are ADSL2+ routers. By integrating DSL and NAT, you are provided with ease of
installation and high-speed, shared Internet access.
The P-660HN-Fx is also a complete security solution with a robust firewall and content filtering. Please refer to the following description of the product name
format. · "H" denotes an integrated 4-port hub (switch). · "N" denotes 802.11n draft 2.
0. The "N" models support 802.11n wireless connection mode. · Models ending in "1", for example P-660HN-F1, denote a device that works over the analog
telephone system, POTS (Plain Old Telephone Service). Models ending in "3" denote a device that works over ISDN (Integrated Services Digital Network) or

T-ISDN (UR-2). Only use firmware for your ZyXEL Device's specific model. Refer to the label on the bottom of your ZyXEL Device. All screens displayed in this user's guide are from the P-660HN-F1 model. See the product specifications for a full list of features. 1.

2 Ways to Manage the ZyXEL Device Use any of the following methods to manage the ZyXEL Device. · Web Configurator. This is recommended for everyday management of the ZyXEL Device using a (supported) web browser. P-660HN-Fx User's Guide 33 Chapter 1 Introducing the ZyXEL Device · Command Line Interface. Line commands are mostly used for troubleshooting by service engineers. · FTP for firmware upgrades and configuration backup/restore. · SNMP. The device can be monitored by an SNMP manager. See the SNMP chapter in this User's Guide.



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· SPTGEN.

SPTGEN is a text configuration file that allows you to configure the device by uploading an SPTGEN file. This is especially convenient if you need to configure many devices of the same type. · TR-069. This is an auto-configuration server used to remotely configure your device. 1.

3 Good Habits for Managing the ZyXEL Device Do the following things regularly to make the ZyXEL Device more secure and to manage the ZyXEL Device more effectively. · Change the password. Use a password that's not easy to guess and that consists of different types of characters, such as numbers and letters. · Write down the password and put it in a safe place. · Back up the configuration (and make sure you know how to restore it).

Restoring an earlier working configuration may be useful if the device becomes unstable or even crashes. If you forget your password, you will have to reset the ZyXEL Device to its factory default settings. If you backed up an earlier configuration file, you would not have to totally re-configure the ZyXEL Device.

You could simply restore your last configuration. 1.4 Applications for the ZyXEL Device Here are some example uses for which the ZyXEL Device is well suited. 1.4.1 Internet Access Your ZyXEL Device provides shared Internet access by connecting the DSL port to the DSL or MODEM jack on a splitter or your telephone jack. Computers can connect to the ZyXEL Device's LAN ports (or wirelessly).

34 P-660HN-Fx User's Guide Chapter 1 Introducing the ZyXEL Device Figure 1 ZyXEL Device's Router Features LAN DSL You can also configure firewall and content filtering on the ZyXEL Device for secure Internet access. When the firewall is on, all incoming traffic from the Internet to your network is blocked unless it is initiated from your network. This means that probes from the outside to your network are not allowed, but you can safely browse the Internet and download files. Use content filtering to block access to specific web sites, with URL's containing keywords that you specify. You can define time periods and days during which content filtering is enabled and include or exclude particular computers on your network from content filtering. For example, you could block access to certain web sites for the kids. Use QoS to efficiently manage traffic on your network by giving priority to certain types of traffic and/or to particular computers. For example, you could make sure that the ZyXEL Device gives voice over Internet calls high priority, and/or limit bandwidth devoted to the boss's excessive file downloading. 1.5 LEDs (Lights) The following graphic displays the labels of the LEDs.

Figure 2 LEDs on the Top of the Device None of the LEDs are on if the ZyXEL Device is not receiving power. Table 1 LED Descriptions LED POWER COLOR STATUS Green Red On Blinking On Off DESCRIPTION The ZyXEL Device is receiving power and ready for use. The ZyXEL Device is self-testing.

The ZyXEL Device detected an error while self-testing, or there is a device malfunction. The ZyXEL Device is not receiving power.

P-660HN-Fx User's Guide 35 Chapter 1 Introducing the ZyXEL Device Table 1 LED Descriptions LED ETHERNET 1-4 COLOR STATUS Green On Blinking Off WLAN/WPS Green Orange DSL Green On Blinking Blinking Off On Blinking Off INTERNET Green On DESCRIPTION The ZyXEL Device has an Ethernet connection with a device on the Local Area Network (LAN). The ZyXEL Device is sending/receiving data to/from the LAN. The ZyXEL Device does not have an Ethernet connection with the LAN. The wireless network is activated. The ZyXEL Device is communicating with other wireless clients.

The ZyXEL Device is setting up a WPS connection. The wireless network is not activated. The DSL line is up. The ZyXEL Device is initializing the DSL line.

The DSL line is down. The ZyXEL Device has an IP connection but no traffic. Your device has a WAN IP address (either static or assigned by a DHCP server), PPP negotiation was successfully completed (if used) and the DSL connection is up. The ZyXEL Device is sending or receiving IP traffic. The ZyXEL Device attempted to make an IP connection but failed. Possible causes are no response from a DHCP server, no PPPoE response, PPPoE authentication failed.

The ZyXEL Device does not have an IP connection. Blinking Red On Off Refer to the Quick Start Guide for information on hardware connections. 1.6 The RESET Button If you forget your password or cannot access the web configurator, you will need to use the RESET button at the back of the device to reload the factory-default configuration file. This means that you will lose all configurations that you had previously and the password will be reset to "1234". You can also use the 1.6.1 Using the Reset Button 1 Make sure the POWER LED is on (not blinking). 2 To set the device back to the factory default settings, press the RESET button for ten seconds or until the POWER LED begins to blink and then release it. When the POWER LED begins to blink, the defaults have been restored and the device restarts.

1.7 The WPS WLAN Button You can use the WPS WLAN ON/OFF button () on the top of the device to turn the wireless LAN off or on. You can also use it to activate WPS in order to quickly set up a wireless network with strong security. 36 P-660HN-Fx User's Guide Chapter 1 Introducing the ZyXEL Device 1.7. 1 Turn the Wireless LAN Off or On 1 Make sure the POWER LED is on (not blinking). 2 Press the WPS WLAN ON/OFF button for less than five seconds and release it. The WLAN/WPS LED should change from on to off or vice versa. 1.7.

2 Activate WPS 1 Make sure the POWER LED is on (not blinking). 2 Press the WPS WLAN ON/OFF button for five to ten seconds and release it. Press the WPS button on another WPS-enabled device within range of the ZyXEL Device. The WLAN/WPS LED should flash while the ZyXEL Device sets up a WPS connection with the wireless device. You must activate WPS in the ZyXEL Device and in another wireless device within two minutes of each other. See Section 7.9.8 on page 128 for more information. P-660HN-Fx User's Guide 37 Chapter 1 Introducing the ZyXEL Device 38 P-660HN-Fx User's Guide CHAPTER 2.1 Overview 2 Introducing the Web Configurator The web configurator is an HTML-based management interface that allows easy device setup and management via Internet browser.

Use Internet Explorer 6.0 and later or Netscape Navigator 7.0 and later versions. The recommended screen resolution is 1024 by 768 pixels. In order to use the web configurator you need to allow: · Web browser pop-up windows from your device. Web pop-up blocking is enabled by default in Windows XP SP (Service Pack) 2. · JavaScripts (enabled by default). · Java permissions (enabled by default). See Appendix B on page 341 if you need to make sure these functions are allowed in Internet Explorer. 2.

1.1 Accessing the Web Configurator 1 Make sure your ZyXEL Device hardware is properly connected (refer to the Quick Start Guide).



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2 Launch your web browser. 3 Type "192.168.

1.1" as the URL. 4 A password screen displays. The ZyXEL Device has a dual login system. The default non-readable characters represents the user password (user by default).

Clicking Login without entering any password brings you to the system's status screen. To access the administrative web configurator and manage the ZyXEL Device, type the admin password (1234 by default) in the password screen and click Login. Click Cancel to revert to the default user password in the password field. If you have changed the password, enter your password and click Login. P-660HN-Fx User's Guide 39 Chapter 2 Introducing the Web Configurator Figure 3 Password Screen 5 The following screen displays if you have not yet changed your password. It is strongly recommended you change the default password. Enter a new password, retype it to confirm and click Apply; alternatively click Ignore to proceed to the main menu if you do not want to change the password now. Figure 4 Change Password Screen 6 The following screen displays if you have not replaced the factory default certificate. Click Apply to create a specific certificate for the device using your computer's MAC address. For security reasons, the ZyXEL Device automatically logs you out if you do not use the web configurator for five minutes (default).

If this happens, log in again. 40 P-660HN-Fx User's Guide Chapter 2 Introducing the Web Configurator Figure 5 Replace Factory Default Certificate Screen

2.2 Web Configurator Main Screen Figure 6 Main Screen A B C D As illustrated above, the main screen is divided into these parts: . . . A - title bar B - navigation panel C - main window D - status bar 2.2.1 Title Bar The title bar provides some icons in the upper right corner. P-660HN-Fx User's Guide 41

Chapter 2 Introducing the Web Configurator The icons provide the following functions. Table 2 Web Configurator Icons in the Title Bar ICON DESCRIPTION Help: Click this icon to open up help screens. Wizards: Click this icon to go to the configuration wizards. See Chapter 4 on page 53 for more information. Logout: Click this icon to log out of the web configurator.

2.2.2 Navigation Panel Use the menu items on the navigation panel to open screens to configure ZyXEL Device features. The following tables describe each menu item. Table 3 Navigation Panel Summary LINK Status Network WAN Internet Access Setup More Connections WAN Backup Setup LAN IP DHCP Setup Client List Use this screen to configure ISP parameters, WAN IP address assignment, DNS servers and other advanced properties.

Use this screen to configure additional WAN connections. Use this screen to configure a backup gateway. Use this screen to configure LAN TCP/IP settings, enable Any IP and other advanced properties. Use this screen to configure LAN DHCP settings. Use this screen to view current DHCP client information and to always assign specific IP addresses to individual MAC addresses (and host names).

Use this screen to partition your LAN interface into subnets. Use this screen to configure the wireless LAN settings and WLAN authentication/security settings. Use this screen to configure multiple BSSs on the ZyXEL Device. Use this screen to enable WPS (Wi-Fi Protected Setup) and set up your wireless network. Use this screen to set up Wireless Distribution System links to other access points. Use this screen to enable or disable Quality of Service (QoS). Use this screen to configure the dates/times to enable or disable the wireless LAN. Use this screen to enable NAT. Use this screen to make your local servers visible to the outside world. Use this screen to enable or disable SIP ALG.

TAB FUNCTION This screen shows the ZyXEL Device's general device and network status information. Use this screen to access the statistics and client list. IP Alias Wireless LAN AP More AP WPS Station WDS QoS Scheduling NAT General Port Forwarding ALG Security 42 P-660HN-Fx User's Guide Chapter 2

Introducing the Web Configurator Table 3 Navigation Panel Summary LINK Firewall TAB General Rules Threshold Content Filter Keyword Schedule Trusted Packet Filter Certificates My Certificates Trusted CAs Trusted Remote Hosts Directory Servers Advanced Static Route 802.1Q/IP Group Setting Use this screen to configure IP static routes to tell your device about networks beyond the directly connected remote nodes. Use this screen to activate 802.1Q/IP, specify the management VLAN group, display the VLAN groups and configure the settings for each VLAN group. Use this screen to configure the PVID and assign traffic priority for each port. Use this screen to enable QoS and traffic prioritizing, and configure bandwidth management on the WAN. Use this screen to define a classifier. Use this screen to view each queue's statistics.

This screen allows you to use a static hostname alias for a dynamic IP address. WWW Telnet FTP SNMP DNS ICMP Use this screen to configure through which interface(s) and from which IP address(es) users can use HTTP to manage the ZyXEL Device. Use this screen to configure through which interface(s) and from which IP address(es) users can use Telnet to manage the ZyXEL Device. Use this screen to configure through which interface(s) and from which IP address(es) users can use FTP to access the ZyXEL Device. Use this screen to configure your ZyXEL Device's settings for Simple Network Management Protocol management.

Use this screen to configure through which interface(s) and from which IP address(es) users can send DNS queries to the ZyXEL Device. Use this screen to set whether or not your device will respond to pings and probes for services that you have not made available. FUNCTION Use this screen to activate/deactivate the firewall and the default action to take on network traffic going in specific directions. This screen shows a summary of the firewall rules, and allows you to edit/add a firewall rule. Use this screen to configure the thresholds for determining when to drop sessions that do not become fully established.

Use this screen to block access to web sites containing certain keywords in the URL. Use this screen to set the days and times for your device to perform content filtering. Use this screen to exclude a range of users on the LAN from content filtering. Use this screen to configure the rules for protocol and generic filter sets. Use this screen to generate and export self-signed certificates or certification requests and import the ZyXEL Device's CA-signed certificates. Use this screen to save CA certificates to the ZyXEL Device. Use this screen to import self-signed certificates. Use this screen to configure a list of addresses of directory servers (that contain lists of valid and revoked certificates). Port Setting QoS General Class Setup Monitor Dynamic DNS Remote MGMT P-660HN-Fx User's Guide 43 Chapter 2 Introducing the Web Configurator Table 3 Navigation Panel Summary LINK UPnP Maintenance System General Time Setting Logs View Log Log Settings Tools Firmware Configuration Restart Diagnostic General DSL Line Use this screen to configure your device's name, domain name, management inactivity timeout and password.



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Use this screen to change your ZyXEL Device's time and date.

Use this screen to display your device's logs. Use this screen to select which logs and/or immediate alerts your device is to record. You can also set it to e-mail the logs to you. Use this screen to upload firmware to your device. Use this screen to backup and restore your device's configuration (settings) or reset the factory default settings. This screen allows you to reboot the ZyXEL Device without turning the power off. Use this screen to test the connections to other devices. These screen displays information to help you identify problems with the DSL connection. TAB General FUNCTION Use this screen to turn UPnP on or off. 2.

2.3 Main Window The main window displays information and configuration fields. It is discussed in the rest of this document. Right after you log in, the Status screen is displayed. See Chapter 3 on page 45 for more information about the Status screen.

2.2.4 Status Bar Check the status bar when you click Apply or OK to verify that the configuration has been updated. 44 P-660HN-Fx User's Guide CHAPTER 3.1 Overview 3 Status Screens Use the Status screens to look at the current status of the device, system resources, and interfaces (LAN and WAN).

The Status screen also provides detailed information from Any IP and DHCP and statistics from bandwidth management, and traffic. 3.2 The Status Screen Use this screen to view the status of the ZyXEL Device. Click Status to open this screen. Figure 7 Status Screen Each field is described in the following table. Table 4 Status Screen LABEL Refresh Interval Apply DESCRIPTION Enter how often you want the ZyXEL Device to update this screen. Click this to update this screen immediately. P-660HN-Fx User's Guide 45 Chapter 3 Status Screens Table 4 Status Screen LABEL Device Information Host Name This field displays the ZyXEL Device system name. It is used for identification. You can change this in the Maintenance > System > General screen's System Name field.

This is the model name of your device. This is the MAC (Media Access Control) or Ethernet address unique to your ZyXEL Device. This field displays the current version of the firmware inside the device. It also shows the date the firmware version was created. Click this to go to the screen where you can change it. This field displays the current version of the device's DSL modem code. DESCRIPTION Model Number MAC Address ZyNOS Firmware Version DSL Firmware Version WAN Information DSL Mode IP Address IP Subnet Mask Default Gateway VPI/VCI LAN Information IP Address IP Subnet Mask DHCP This is the DSL standard that your ZyXEL Device is using. This field displays the current IP address of the ZyXEL Device in the WAN. Click this to go to the screen where you can change it. This field displays the current subnet mask in the WAN.

This is the IP address of the default gateway, if applicable. This is the Virtual Path Identifier and Virtual Channel Identifier that you entered in the wizard or WAN screen. This field displays the current IP address of the ZyXEL Device in the LAN. Click this to go to the screen where you can change it. This field displays the current subnet mask in the LAN.

This field displays what DHCP services the ZyXEL Device is providing to the LAN. Choices are: Server - The ZyXEL Device is a DHCP server in the LAN. It assigns IP addresses to other computers in the LAN. Relay - The ZyXEL Device acts as a surrogate DHCP server and relays DHCP requests and responses between the remote server and the clients. None - The ZyXEL Device is not providing any DHCP services to the LAN.

Click this to go to the screen where you can change it. WLAN Information SSID Channel Security WPS Status Security This is the descriptive name used to identify the ZyXEL Device in a wireless LAN. Click this to go to the screen where you can change it. This is the channel number used by the ZyXEL Device now. This displays the type of security mode the ZyXEL Device is using in the wireless LAN. This displays whether WPS is activated. Click this to go to the screen where you can configure the settings. This displays whether WLAN is activated. 46 P-660HN-Fx User's Guide Chapter 3 Status Screens Table 4 Status Screen LABEL Firewall Content Filter System Status System Uptime Current Date/ Time System Mode CPU Usage This field displays how long the ZyXEL Device has been running since it last started up. The ZyXEL Device starts up when you plug it in, when you restart it (Maintenance > Tools > Restart), or when you reset it.

This field displays the current date and time in the ZyXEL Device. You can change this in Maintenance > System > Time Setting. This displays whether the ZyXEL Device is functioning as a router or a bridge. This field displays what percentage of the ZyXEL Device's processing ability is currently used. When this percentage is close to 100%, the ZyXEL Device is running at full load, and the throughput is not going to improve anymore. If you want some applications to have more throughput, you should turn off other applications (for example, using QoS; see Chapter 15 on page 225). This field displays what percentage of the ZyXEL Device's memory is currently used. Usually, this percentage should not increase much. If memory usage does get close to 100%, the ZyXEL Device is probably becoming unstable, and you should restart the device. See Section 21.

4 on page 297, or turn off the device (unplug the power) for a few seconds. This column displays each interface the ZyXEL Device has. This field indicates whether or not the ZyXEL Device is using the interface. For the DSL interface, this field displays Down (line is down), Up (line is up or connected) if you're using Ethernet encapsulation and Down (line is down), Up (line is up or connected), Idle (line (ppp) idle), Dial (starting to trigger a call) and Drop (dropping a call) if you're using PPPoE encapsulation. For the LAN interface, this field displays Up when the ZyXEL Device is using the interface and Down when the ZyXEL Device is not using the interface.

For the WLAN interface, it displays Active when WLAN is enabled or InActive when WLAN is disabled. For the LAN interface, this displays the port speed and duplex setting. For the DSL interface, it displays the downstream and upstream transmission rate. For the WLAN interface, it displays the maximum transmission rate when WLAN is enabled or N/A when WLAN is disabled. Click this link to view current DHCP client information.

See Section 6.4 on page 95. Click this link to view a list of IP addresses and MAC addresses of computers, which are not in the same subnet as the ZyXEL Device. See Section 3.3 on page 48. Click this link to display the MAC address(es) of the wireless stations that are currently associating with the ZyXEL Device. See Section 3.4 on page 48. Click this link to view port status and packet specific statistics. See Section 3.

5 on page 48. DESCRIPTION This displays whether or not the ZyXEL Device's firewall is activated.



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Click this to go to the screen where you can change it. This displays whether or not the ZyXEL Device's content filtering is activated. Click this to go to the screen where you can change it. Memory Usage Interface Status Rate Summary Client List AnyIP Table WLAN Status Packet Statistics P-660HN-Fx User's Guide 47 Chapter 3 Status Screens 3.3 Client List See Section 6.4 on page 95 for information on this screen. 3.4 WLAN Status Use this screen to view the wireless stations that are currently associated to the ZyXEL Device.

Click Status > WLAN Status to access this screen. Figure 8 WLAN Status The following table describes the labels in this screen. Table 5 WLAN Status LABEL # MAC Address Association Time Refresh DESCRIPTION This is the index number of an associated wireless station. This field displays the MAC (Media Access Control) address of an associated wireless station. This field displays the time a wireless station first associated with the ZyXEL Device.

Click this to reload this screen. 3.5 Packet Statistics Read-only information here includes port status and packet specific statistics. Also provided are "system up time" and "poll interval(s)". The Poll Interval(s) field is configurable.

Click Status > Packet Statistics to access this screen. 48 P-660HN-Fx User's Guide Chapter 3 Status Screens Figure 9 Packet Statistics The following table describes the fields in this screen. Table 6 Packet Statistics LABEL System Monitor System up Time Current Date/Time CPU Usage Memory Usage WAN Port Statistics Link Status WAN IP Address Upstream Speed Downstream Speed Node-Link Status This is the status of your WAN link. This is the IP address of the ZyXEL Device's WAN port. This is the upstream speed of your ZyXEL Device. This is the downstream speed of your ZyXEL Device. This field displays the remote node index number and link type. Link types are PPPoA, ENET, RFC 1483 and PPPoE. This field displays Down (line is down), Up (line is up or connected) if you're using Ethernet encapsulation and Down (line is down), Up (line is up or connected), Idle (line (ppp) idle), Dial (starting to trigger a call) and Drop (dropping a call) if you're using PPPoE encapsulation. This field displays the number of packets transmitted on this port.

This field displays the number of packets received on this port. This field displays the number of error packets on this port. This field displays the number of bytes transmitted in the last second. This is the elapsed time the system has been up. This field displays your ZyXEL Device's present date and time. This field specifies the percentage of CPU utilization. This field specifies the percentage of memory utilization. DESCRIPTION TxPkts RxPkts Errors Tx B/s P-660HN-Fx User's Guide 49 Chapter 3 Status Screens Table 6 Packet Statistics (continued) LABEL Rx B/s Up Time LAN Port Statistics Interface Status This field displays either Ethernet (LAN ports) or Wireless (WLAN port). For the LAN ports, this field displays Down (line is down) or Up (line is up or connected). For the WLAN port, it displays the transmission rate when WLAN is enabled or N/A when WLAN is disabled.

This field displays the number of packets transmitted on this interface. This field displays the number of packets received on this interface. This is the number of collisions on this interfaces. Type the time interval for the browser to refresh system statistics. Click this to apply the new poll interval you entered in the Poll Interval field above.

Click this to halt the refreshing of the system statistics. DESCRIPTION This field displays the number of bytes received in the last second. This field displays the elapsed time this port has been up. TxPkts RxPkts Collisions Poll Interval(s) Set Interval Stop 3.6 Any IP Table Click Status > AnyIP Table to access this screen.

Use this screen to view the IP address and MAC address of each computer that is using the ZyXEL Device but is in a different subnet than the ZyXEL Device. Figure 10 Any IP Table Each field is described in the following table. Table 7 Any IP Table LABEL # IP Address MAC Address Refresh DESCRIPTION This field is a sequential value. It is not associated with a specific entry. This field displays the IP address of each computer that is using the ZyXEL Device but is in a different subnet than the ZyXEL Device. This field displays the MAC address of the computer that is using the ZyXEL Device but is in a different subnet than the ZyXEL Device. Click this to update this screen. 50 P-660HN-Fx User's Guide PART II Wizard Internet and Wireless Setup Wizard (53) 51 52 CHAPTER 4.1 Overview 4 Internet and Wireless Setup Wizard Use the wizard setup screens to configure your system for Internet access with the information given to you by your ISP. See the advanced menu chapters for background information on these fields.

4.2 Internet Access Wizard Setup 1 After you enter the password to access the web configurator, select Go to Wizard setup and click Apply. Otherwise, click the wizard icon () in the top right corner of the web configurator to go to the wizards. Figure 11 Select a Mode 2 Click INTERNET/WIRELESS SETUP to configure the system for Internet access and wireless connection. P-660HN-Fx User's Guide 53 Chapter 4 Internet and Wireless Setup Wizard Figure 12 Wizard Welcome 3 Your ZyXEL device attempts to detect your DSL connection and your connection type. 3a The following screen appears if a connection is not detected. Check your hardware connections and click Restart the INTERNET/WIRELESS SETUP Wizard to return to the wizard welcome screen. If you still cannot connect, click Manually configure your Internet connection. Follow the directions in the wizard and enter your Internet setup information as provided to you by your ISP. See Section 4.

2.1 on page 55 for more details. If you would like to skip your Internet setup and configure the wireless LAN settings, leave Yes selected and click Next. Figure 13 Auto Detection: No DSL Connection 3b The following screen displays if a PPPoE or PPPoA connection is detected. Enter your Internet account information (username, password and/or service name) exactly as provided by your ISP.

Then click Next and see Section 4.3 on page 60 for wireless connection wizard setup. 54 P-660HN-Fx User's Guide Chapter 4 Internet and Wireless Setup Wizard Figure 14 Auto-Detection: PPPoE 3c The following screen appears if the ZyXEL device detects a connection but not the connection type. Click Next and refer to Section 4.2.

1 on page 55 on how to manually configure the ZyXEL Device for Internet access. Figure 15 Auto Detection: Failed 4.2.1 Manual Configuration 1 If the ZyXEL Device fails to detect your DSL connection type but the physical line is connected, enter your Internet access information in the wizard screen exactly as your service provider gave it to you.



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