



Asus AX-145 Quick Installation Manual

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AX-125/145

SIP VoIP Router

Quick Installation Guide

QE3344 / August 2007



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Web site address: usa.asus.com Technical support General support: +1-502-933-8713 Support (fax): +1-502-995-0883 Online support: <http://vip.asus.com/eservice/techserv.aspx> ASUS COMPUTER GmbH (Germany & Austria) Company address: Harkort Str. 25, D-40880 Ratingen, Germany General (tel): +49-2102-95990 Web site address: www.asus.com.de General (fax): +49-2102-959911 Online contact: www.asus.com.de/sales...

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[Page 4: Introduction](#)

AX-125 : 3 x RJ11 jacks support two FXS port and one bypass mode FXO port. • AX-145 : 5 x RJ11 jacks support four FXS port and one bypass mode FXO port. • Support most popular vocoders ; G.711u/A, G.723.1, G.729AB with 32ms tail length line echo cancellation (G.168), silence suppression, Voice Activity Detection(VAD),...

[Page 5: Package Contents](#)

AX-125/145 SIP VoIP Router Quick Installation Guide Package Contents You should find the following items in the AX-125/145 package; • AX-125/145 x 1 • RJ45 ethernet cable x 1, RJ11 phone cable x 1 • 5V/3A DC power adaptor x 1 •...

[Page 6: Quick Installation](#)

AX-125/145 SIP VoIP Router Quick Installation Guide 2. Quick Installation 2.1 Front panel features AX125 Reset/Reboot button AX-125 front panel AX145 Reset/Reboot button AX-145 front panel Light Pattern Status 1. Power Green LED on DC power 2. WAN Green LED on...

[Page 7: Rear Panel Features](#)

AX-125/145 SIP VoIP Router Quick Installation Guide 2.2 Rear panel features AX-125 rear panel AX-145 rear panel Features 1. Power/5V/2A DC port) Connects the AX-125/145's power adapter to a power source. 2. Phone1-Phone4/RJ-11 port Connects the device to an analog phone set.

[Page 8: Hardware Connection](#)

AX-125/145 SIP VoIP Router Quick Installation Guide Hardware connection 1. Use a Category 5 (Cat 5) Ethernet cable to connect the WAN port of AX-125/145 with the uplink port of your ADSL modem or router. 2. Use another Cat 5 Ethernet cable to connect your PC or Notebook to the LAN port of AX-125/145.

[Page 9: Reset/Reboot Button](#)

AX-125/145 SIP VoIP Router Quick Installation Guide Reset/Reboot button AX145 Reset/Reboot button The Reset/Reboot button, located at the front panel, has two (2) functions: Reset to factory default settings • To reset the device to its factory default settings, press the Reset /Reboot button at least five (5) seconds using a sharp pointed object such as a pen.

[Page 10](#) AX-125/145 SIP VoIP Router Quick Installation Guide Table 1: IVR command codes
Code Status Function
*** Main Menu Enables you to enter the IVR menu. Main 100# Network Status Gives you the WAN IP and SIP registration Menu status. 200# LAN Config Configure LAN interface.

[Page 11](#) AX-125/145 SIP VoIP Router Quick Installation Guide Once you have the IP information settings, enter the information in the TCP/IP Properties in your Network Properties. To enter the AX-125/145's GUI, enter the Gateway IP in a web browser. In this example, the

Gateway IP is http://192.168.1.1.

[Page 12: Configuration Guide](#)

Default settings User name: admin Password: admin After logging in, the ASUS AX-125/145's default page is displayed. The default page displays the system's status information, as well quick links to configure the main features of AX-125/145.

[Page 13: Configuration Options](#)

AX-125/145 SIP VoIP Router Quick Installation Guide Configuration options The AX-125/145's GUI enables you to configure the following: WAN: Enables you to configure the Internet • connection mode (DHCP, Static IP, or PPPoE), and the DDNS services. LAN: Enable s y o u t o d e f i n e t h e LAN IP •...

[Page 14](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.2.1 WAN Settings To configure the WAN settings WARNING: The WAN access type MUST be configured correctly. If you are not sure how to configure the WAN parameters, contact your Internet Service Provider (ISP) for your WAN details. 1.

[Page 15](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.2.2 VLAN Tag To enable the AX-125/145 VLAN Tag function 1. From the menu, click WAN -> VLAN Tag and check on the service Enable button. 2. Enter the VLAN ID and priority code. 4.

[Page 16](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.2.3 DDNS If you need a domain name to access the AX-125/145's GUI, you may enable the AX-125/145's DDNS function. To enable the AX-125/145 DDNS function 1. From the menu, click WAN -> Dynamic DNS and check on the service Enable button.

[Page 17: Lan](#)

AX-125/145 SIP VoIP Router Quick Installation Guide 3.3.1 Setting To configure the LAN settings 1. Click LAN -> Setting and enter the IP address and Netmask. 2. When done, click Apply. 3.3.2 DHCP Server To enable DHCP service 1. Click LAN -> DHCP Server. The DHCP server screen is displayed. 3.

[Page 18](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.3.3 DNS Proxy To enable DNS proxy 1. From the menu, click LAN -> DNS Proxy. 2. Check the service Enable checkbox. Select from these two (2) options: • Insert LAN IP to DHCP server's first DNS record when enabled When you choose this option, AX-125/145 automatically inserts the first DNS IP you defined to all DHCP clients request.

[Page 19: Voip](#)

AX-125/145 SIP VoIP Router Quick Installation Guide VoIP 3.4.1 System Setting To configure the basic Session Initiation Protocol (SIP) settings, follow these steps: 1. From the menu, click VoIP -> System Setting. The VoIP System Setting screen is displayed. 2. Configure these settings: •...

[Page 20: Sip Server](#)

AX-125/145 SIP VoIP Router Quick Installation Guide 3.4.2 SIP server To set up SIP server information 1. From the menu, click VoIP -> SIP Server. 2. Configure the following settings: • Server address: Enter the SIP server IP address or domain name for registration.

[Page 21](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.4.3 Service code The Service code settings enable you to assign the VoIP call function codes and set up phone book/speed dial settings. To set Service code 1. From the menu, click VoIP -> Service Code. Configure these settings.

[Page 22](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.4.4 Codec To set Codecs 1. From the menu, click VoIP -> Codec. 2. Configure these settings: • Codecs: Select the voice codec type for the VoIP call function, AX-125/145 supports the most popular G.723 and G.729 low bit rate codec and its payload setting.

[Page 23: Miscellaneous Settings](#)

AX-125/145 SIP VoIP Router Quick Installation Guide 3.4.5 Miscellaneous settings You can configure other VoIP settings in the Misc configuration page. To configure Misc setting 1. From

the menu, click VoIP -> Misc. The Misc Settings screen is displayed. 2. You may configure the following settings: •...

[Page 24: Firewall](#)

If “no” is selected, then the quick dial key will be removed before sending out DTMF codes. 3. When done, click Apply. Firewall The ASUS AX-125/145 supports basic firewall functions, DOS attack filtering, port scan detection, and ICMP echo reply disable. 3.5.1 Setting To enable Firewall Settings 1.

[Page 25](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.5.2 LAN to WAN You can define some LAN to WAN rules for AX-125/145 firewall function. To enable LAN to WAN ACL 1. From the menu, click Firewall -> LAN to WAN. The LAN to WAN ACL settings screen is displayed.

[Page 26](#) AX-125/145 SIP VoIP Router Quick Installation Guide 2. Select the Service you want to define. You can either select Well-known and select from the dropdown list; or you can select Custom and define a custom protocol. 3. If you want to define a complex ACL rule, check Complex Rule to enable it. The Complex Rule screen is displayed.

[Page 27: Nat](#)

AX-125/145 SIP VoIP Router Quick Installation Guide ASUS AX-125/145 supports NAT functions such as IP-share, DMZ, port redirect, and port trigger. 3.6.1 Setting To configure NAT settings 1. From the menu, click NAT -> Setting. The NAT Setup screen is displayed.

[Page 28](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.6.2 Port redirect The Port Redirect function allows you to specify the port/IP address and service type to redirect traffic to a local device in the LAN. To enable Port Redirect 1. From the menu, click NAT -> Port Redirect. The Port Redirect screen is displayed.

[Page 29](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.6.3 Port trigger To enable Port trigger 1. From the menu, click NAT -> Port Trigger. The Port Trigger screen is displayed. 2. In the Trigger field, check Enable. 3. In the Time Out field, specify the time out value for session validation check. Click Apply when done.

[Page 30: Traffic Control](#)

3.6.4 Session Idle Timeout The ASUS AX-125/145 allows you to control the session idle time. If you make a connection to a server through the AX-125/145, the established connection will timeout if there is no packet transmission during the defined Timeout Value. Any packet transmission before the session timeout will refresh the timer back to the defined Timeout Value.

[Page 31](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.7.2 Custom rule mode To enable Custom rule mode 1. From the menu, click Traffic Control -> Custom Rule. The Custom Rule screen is displayed. 2. Configure the following settings: • Bandwidth: To use custom mode QoS, you have to specify the real maximum bandwidth of your Internet broadband access, and the following bandwidth control calculation are all based on this real bandwidth value.

[Page 32](#) AX-125/145 SIP VoIP Router Quick Installation Guide Custom rule QoS configuration example: Assumption: Upload Bandwidth: 256Kbps Download Bandwidth: 1Mbps (=1024Kbps) Non-Voice Squeezed Percentage: 40% Let Undefined Traffic use Full Bandwidth: No Add 2 user define rules for HTTP and SMTP No VoIP calls VoIP calls in progress Guaranteed...

[Page 33: Management](#)

AX-125/145 SIP VoIP Router Quick Installation Guide Management The Management configuration settings allow you to set up administrative settings such as enabling/disabling web access allowed from WAN side; GUI authentication to prevent unauthorized login; upgrading the AX-125/145's firmware; restoring the AX-125/145's system to factory default settings;...

[Page 34](#) AX-125/145 SIP VoIP Router Quick Installation Guide 2. Configure the following settings: • Remote management: Enable/Disable Internet access from WAN side. NOTE: Although it is convenient to access AX-125/145 from WAN side, it also leaves the system open to hackers. •...

[Page 35](#) AX-125/145 SIP VoIP Router Quick Installation Guide 3.8.4 Configuration ASUS AX-125/145 allows you to restore the device to its factory default settings, and to backup or restore the system's configuration. To do this, click Management ->Configuration. 3.9.5 ASUS AX-125/145 keeps track of users' activities through its Log function. To...

[Page 36: Sip Operation Guide](#)

Chinese or English. Refer to section 3.4.1 System Setting on page 17 for more details. Call Service Features ASUS AX-125/145 has some predefined call function services and they are configurable by WEB GUI. Table 2 describes the operation of these call functions. Table 2: Default Call Functions Settings...

[Page 37: Pstn Access](#)

Refer to Table 2. Default Call Functions Settings for more details. • Unless there is any conflict, ASUS strongly recommend that you should not change the default service codes. • If AX-125/145 successfully registered to the SIP server, then you will hear a dial tone when you pick up the phone set, and you will hear a busy tone if AX-125/145 failed to register.

[Page 38: Led Indication](#)

Green LED blinking RJ45 traffic activity #7-FXO Green LED on FXO off the hook (in use) #8~#9 Green LED on FXO off the hook (in use) FXS1~2 #10~#11 Green LED on FXS off the hook (in use) FXS3~4 Only for AX-145...

[Page 39: Troubleshooting](#)

AX-125/145 SIP VoIP Router Quick Installation Guide 5. Troubleshooting Symptom: There is no LED activity at power on. • Check that the Power Supply Unit (PSU) is properly connected. Symptom: There is no dial tone when the phone is picked up. •...

[Page 40](#) AX-125/145 SIP VoIP Router Quick Installation Guide Symptom: The interface is configured for PPPoE, but it is not working. • If authentication is required, check that the user name and password are correct. Symptom: I forgot the IP address of the device, and hence cannot reach it via my web browser.

This manual is also suitable for:

[AX-125](#)