

Wireless 11ac Bonded VDSL2 Modem Gateway

Model # T3260

User Manual

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Introduction

Congratulations on purchasing the T3260 Wireless 11ac Bonded VDSL2 Modem Gateway. The Gateway is a single platform device that supports universal WAN access, FTTN, FTTdp, FTTB, or FTTP. With support for advanced 802.11ac 4x4 WiFi, the Gateway enables blazing fast HD video streaming, with multi-channel HD video throughput. The Gateway also offers an unprecedented level of security, helping protect your network resources. It has also been designed to deliver unparalleled WiFi performance, using dual-band WiFi supporting speeds up to 2.3 Gbps.



Package Contents

- Black Power adapter
- Yellow cable (Ethernet, 6 ft.)
- White cable (Ethernet, 10 ft.)
- Quick Start Guide
- Installation Guide
- Wall-mount template
- Vertical stand

Minimum System Requirements

- Active ADSL2+ service
- Computer with an 10 Mbps or 10/100/1000 Mbps Ethernet connection
- Microsoft Windows 10, 8, 7; Mac OS OS X+
- TCP/IP network protocol installed on each computer

Features

- ADSL2+, VDSL2, G.fast, WAN Ethernet and Fiber in a single CPE
- Dual Band WiFi delivering up to 2.3 Gbps with 802.11ac 4x4 5GHz and 802.11n 3x3 2.4GHz
- Optimized for IPTV and Video over WiFi

Getting to Know the Gateway

This section contains a quick description of the Gateway's lights, ports, and other features. The Gateway has several indicator lights (LEDs) and a button on its front panel, and a series of ports and switches on its rear panel.

Front Panel

The front panel of the Gateway features 12 LEDs, and a WPS (Wireless Protected Setup) button.

Power

The Power LED brights green when the unit is powered up.

DSL 1

The DSL 1 LED brights green when the DSL 1 is synchronized.

DSL 2

The DSL 2 LED brights green when the DSL 2 is synchronized.

Internet

The Internet LED illuminates green when the Gateway is properly connected to a WAN Internet connection. WAN/LAN This LED brights green when there is an active Ethernet cable connected to the WAN port, and it blinks with traffic activity.

Ethernet 1

This LED brights green when there is an active Ethernet cable connected to the LAN port #1, and it blinks with traffic activity.

Ethernet 2

This LED brights green when there is an active Ethernet cable connected to the LAN port #2, and it blinks with traffic activity.

Ethernet 3

This LED brights green when there is an active Ethernet cable connected to the LAN port #3, and it blinks with traffic activity.

Ethernet 4

This LED brights green when there is an active Ethernet cable connected to the LAN port #4, and it blinks with traffic activity.

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USB

This LED brights green when there is an active device connected to the USB port.

Wi-Fi 2.4G

This LED brights green when the Gateway's radio is operating in the 2.4GHz band.

Wi-Fi 5G

This LED brights green when the Gateway's radio is operating in the 5GHz band.

WPS Button

The WPS button is used when connecting a wireless device to the Gateway's wireless network using WPS.

Rear Panel

The rear panel of the Gateway features 8 ports, and a Reset button.



Power Port

The Power port is used to connect the Power cord (Model No. CDS036-W120U, made by Actiontec) to the Gateway.

Reset Button

Depressing the Reset button for 10 seconds will restore the Gateway's factory default settings. The reset process will start after releasing the button.

Introduction

WARNING! Do not unplug the Power cord from the Gateway during the reset process. Doing so may result in permanent damage to the Gateway.

WAN Ethernet Port

The WAN Ethernet port is used to connect the Gateway to a WAN connection via an Ethernet cable.

LAN Ethernet Ports (4)

The LAN Ethernet ports are used to connect computers to the Gateway via Ethernet cable. The Ethernet ports are 10/100/1000 Mbps auto-sensing ports, and either a straight-through or crossover Ethernet cable can be used when connecting to the ports.

USB Port

The USB port is used to connect the Gateway to a USB device.

DSL Port

The DSL port is used to connect the Gateway to a DSL wall outlet via DSL cable.

Connecting the Gateway

There are many variables involved when connecting the Gateway, depending on the type of Internet service available. The figure below shows the possible connections available for the Gateway.



Connecting a Computer to the Gateway

To connect a computer to the Gateway to access the Gateway's graphical user interface (GUI):

1. Get the Gateway and black Power cord from the box.
2. Plug the black Power cord in the black port on the back of the Gateway and then into a power outlet.
3. Plug the yellow Ethernet cable from the box into one of the four yellow Ethernet ports on the back of the Gateway.
4. Make sure the computer is powered on, then plug the other end of the yellow Ethernet cable into an Ethernet port on the computer.
5. Make sure that the LED on the LAN port into which the Ethernet cable is plugged glows steadily green. This may take a few moments.
6. The computer should either be configured with a statically defined IP address and DNS address, or instructed to automatically obtain an IP address using the Network DHCP server. The Gateway is set up, by default, with an active

Introduction

DHCP server, and it is recommended to leave this setting as is.

Accessing the Home Screen

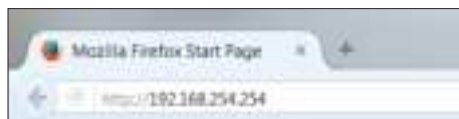
2

This chapter gives a short overview of the Home screen of the Gateway's graphical user interface (GUI).

Accessing the Home Screen

To access the Home screen:

1. Open a Web browser on computer connected, via Ethernet cable, to one of the Gateway's LAN ports. In the *Address* text box, type:
<http://192.168.254.254>
then press **Enter** on the keyboard.



2. The Gateway's Home screen appears.



The Gateway's GUI is now accessible.

Icon Bar

At the top of the Home screen is the Icon Bar. Here, you can quickly access the other four main sections of the Gateway's GUI by clicking on the appropriate icon: Status (see chapter 3 for more details); Wireless Setup (see chapter 4 for more details); Firewall (see chapter 5 for more details); Advanced Setup (see chapter 6 for more details). Clicking **Home** in any other screen generates the Home screen.



Connection Status

The bottom of the Home screen consists of connection and device information relating to the Gateway. There are no configurable options here.

Summary

Internet Service Provider	Connected
Access	100% Connected
System Up Time	65:55:38
WAN Link Type	ADSL
Current Link	Up to 10000000

Product Info

Model	7120
Serial	000000000000
MAC Address	00:10:00:00:00:00
Firmware Version	7120-10.000.34
Web Status	Web Status

Login Status

No user logged in at the moment

WAN Connection Status

Link Type	Dynamic
Dynamic IP Status	Enabled
Dynamic IP Address	192.168.1.11
Default Route	192.168.1.1
Default Gateway	192.168.1.1
Link Up Time (seconds)	10000000
Link Up Address #1	192.168.1.1
Link Up Address #2	192.168.1.1

Wireless

Wireless Mode	Enabled
Wireless SSID	SSID_123456
Security	Enabled
Security Type	WPA2-PSK

Local Network

Computer	Connected	192.168.1.10
Phone	Connected	192.168.1.11

Firewall

UPnP Status	Enabled
Firewall	Enabled
Block Outgoing	Disabled

Diagnostics

Log in Required

Log

Traceroute

Network Ping

Device Ping

Factory Reset

Factory Restore

Checking the Gateway's Status

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This chapter explains the options available on the Status screens, which display information about the Gateway's network connections.

Accessing the Status Screens

To access the Gateway's Status screens:

1. Open a Web browser. In the *Address* text box, type:

<http://192.168.254.254>

then press **Enter** on the keyboard.



2. The Gateway's Main screen appears. Click the *Status* icon.



- The *Connection Status* screen appears. “Connection Status” is under the “Internet Service” group.



From here, all the Status screens can be accessed from the menu on the left.

Connection Status

Clicking **Connection Status** from any Status screen generates the *Connection Status* (see figure, above). Information concerning the devices connected to the Gateway’s network, whether wired or wireless, is displayed here, along with the connected device’s IP address, MAC address, and (if applicable) IPv6 address.

Checking the Gateway's Status

Line 1/Line 2 Status

Click **Line 1 Status** from any Status screen to generate the *Line 1 Status* screen. This screen displays the Gateway's DSL connection parameters for *DSL Line 1* port. Clicking **Line 2 Status** generates the *Line 2 Status* screen, which displays the connection parameters for the Gateway's *DSL Line 2* port.

Line 1 Status	
Connection	Status
Connection Description	Disconnected
Online Status/Provision	Disconnected
PPP Parameters	
User Name	N/A
User Type	N/A
PPP State	Disconnected
PPP Type	PPPoE
Authentication Method	E
Session Time	0 Days, 00h:00m:00s
Session State	N/A
Session Password	N/A
Session Uptime	0 Days, 00h:00m:00s
PPP Speed	N/A
DSL Link	
DSL Link Status	0 Days, 0m:00s:00s
Powerup	N/A
Powerup Count (24 Hrs)	N/A
Level of Protection/Provision	N/A

Line 2 Status	
Connection	Status
Connection Description	Disconnected
Online Status/Provision	Disconnected
PPP Parameters	
User Name	N/A
User Type	N/A
PPP State	Disconnected
PPP Type	PPPoE
Authentication Method	E
Session Time	0 Days, 00h:00m:00s
Session State	N/A
Session Password	N/A
Session Uptime	0 Days, 00h:00m:00s
PPP Speed	N/A
DSL Link	
DSL Link Status	0 Days, 0m:00s:00s
Powerup	N/A
Powerup Count (24 Hrs)	N/A
Level of Protection/Provision	N/A

WAN Ethernet

Click **WAN Ethernet Status** from any Status screen to generate the *WAN Ethernet Status* screen. This screen displays the Gateway’s WAN (wide area network) parameters.

WAN Ethernet Status	
Parameter	Status
WAN1 Status	Connected
WAN1 Device Name	Connected
WAN1 IP Address	10.0.1.100
WAN1 Subnet Mask	255.255.255.0
Default Gateway	10.0.1.1
WAN1 Type	Static
WAN1 DNS Server	8.8.8.8, 8.8.4.4
WAN1 MTU	1500
WAN1 Speed	100Mbps
WAN1 Type	Static
WAN1 DNS Server	8.8.8.8, 8.8.4.4
WAN1 MTU	1500
WAN1 Speed	100Mbps

Routing Table

Click **Routing Table** from any Status screen to generate the *Routing Table* screen. This screen displays the Gateway’s routes.

Routing Table			
Yield	Destination	Network	Gateway
100	0.0.0.0	0.0.0.0	10.0.1.1
100	10.0.1.0	255.255.255.0	0.0.0.0
100	10.0.1.0/24	255.255.255.0	0.0.0.0

Static Routing Table

Yield	Destination	Network	Gateway
100	0.0.0.0	0.0.0.0	10.0.1.1
100	10.0.1.0	255.255.255.0	0.0.0.0
100	10.0.1.0/24	255.255.255.0	0.0.0.0
100	10.0.1.0	255.255.255.0	0.0.0.0
100	10.0.1.0	255.255.255.0	0.0.0.0
100	10.0.1.0	255.255.255.0	0.0.0.0

Checking the Gateway's Status

Firewall Status

Click **Firewall Status** from any Status screen to generate the *Firewall Status* screen. This screen displays parameters concerning the Gateway's firewall.

Firewall Feature	Link IP	Applied Rule
Application	Not	Default Feature Setting
Port Forwarding	Not	Default Feature Setting
DMZ Hosting	Not	Default Feature Setting
Personal Settings	Not	Personal Not to Monitor
VPN	Not	Not Enabled
Control	Not	Not Control Rules Defined

NAT Table

Click **NAT Table** from any Status screen to generate the *NAT Table* screen. This screen displays the Gateway's WAN (wide area network) parameters.

[illegible]

Wireless Status

Click **Wireless Status** from any Status screen to generate the *Wireless Status* screen. This screen displays the Gateway's wireless network parameters.

Wireless Status

Select SSID

SSID: WIFI_1000000

For additional details, select SSID from drop-down list.

Parameter	Status
Radio	Enabled
SSID	Enabled
Security	Enabled
SSID	WIFI_1000000
Channel Selection	Auto
Channel	13
Wireless Security Type	WPA2 PSK
SSID Broadcast	Enabled
SSID Authentication	Disabled
Wireless Mode	Compatible Mode (802.11a+802.11n+802.11ac)
MIMO State	Disabled
MIMO Type	all 802.11n, 802.11ac (2x2) and 802.11ac
802.11n	Enabled
802.11ac	Enabled
Channel Priority Selection	off
Channel Priority Selection	off

Wireless Status

Wireless Security

Wireless Mode

Checking the Gateway's Status

Advanced Wireless Status

Click **Advanced Wireless Statistics** from the bottom of the Wireless Status screen to generate the *Advanced Wireless Statistics* screen. This screen displays the Gateway's additional wireless network parameters.

Advanced Wireless Statistics

Frequency: 5G 2.4G

Display: RSSI Noise

RSSI Noise	
Items	Values
RSSI	-70.71 -67.92 -66
Noise	-84 -80m

Wireless Monitor

Click **Modemstatus Wireless Monitor** from the bottom of the Wireless Status screen to generate the *Wireless Monitor* screen. This screen displays parameters for the clients connected to the Gateway's wireless network.

Wireless Monitor

Solnet Wireless Client

AP: 192.168.1.100

Parameter	Status
Hardware	AP5000-01
MAC	00:0C:29:00:00:00
SSID	100
Connection Status	100%
Channel	100%
Power	22.100
Power	10.7
Power	1.0
Power	10.4
Power	10.4

Modem Utilization

Click **Modem Utilization** from any Status screen to generate the *Modem Utilization* screen. This screen displays statistics related to the Gateway’s modem operation.



LAN Status

Click **LAN Status** from any Status screen to generate the *LAN Status* screen. This screen displays the Gateway’s LAN (local area network) parameters.



ARP Table

Click **ARP Table** from any Status screen to generate the *ARP Table* screen. This screen displays the Gateway's ARP (address resolution protocol) table.

ARP Table					
IP Address	HW Type	Flags	HW Address	Mask	Source
192.168.1.14	Ether	0x0	00:0c:29:14:00:00	ffff	self
192.168.1.1	Ether	0x0	00:0c:29:14:00:01	ffff	swan0-1

Network Devices

Click **Network Device Table** (underneath System Monitor) from any Status screen to generate the *Network - Devices* screen. This screen allows the user to scan the Gateway's networks for new devices at a selected time interval.

Network - Devices

Auto Scan: ☒ On ☐ Off

Scan Interval: 10 Minutes

Ethernet Devices:  200/200

Wireless Devices:  0/0

 Ethernet: 192.168.1.14 (00:0c:29:14:00:00)

 Wireless: 192.168.1.14 (00:0c:29:14:00:01)

Interface Statistics

Click **Interface Statistics** from any Status screen to generate the *Estimated Interface Statistics* screen. This screen displays various statistics and parameters relating to the Gateway's connection interfaces.

Estimated Interface Statistics												
Interface	Connected State (Mbps)	Priority			Queue Size			Rate			Error Rate (Mbps)	
		Tx	Rx	Total	Drop	Size	Count	Drop	Count	Drop	Count	Count
Ethernet	10000	10000	10000	10000	0	0	0	0	0	0	0	0
WiFi	10000	10000	10000	10000	0	0	0	0	0	0	0	0
Bluetooth	10000	10000	10000	10000	0	0	0	0	0	0	0	0
Cellular	10000	10000	10000	10000	0	0	0	0	0	0	0	0
USB	10000	10000	10000	10000	0	0	0	0	0	0	0	0
Serial	10000	10000	10000	10000	0	0	0	0	0	0	0	0
Modem	10000	10000	10000	10000	0	0	0	0	0	0	0	0
Other	10000	10000	10000	10000	0	0	0	0	0	0	0	0

Multicast Statistics

Click **Multicast Statistics** from any Status screen to generate the *Multicast Statistics* screen. This screen displays the Gateway's multicast statistics.

Multicast Statistics						
Channel	Joined Clients		Time Out Value			
	Host	IP	Days	Hours	Minutes	Seconds
No Entries Defined						

System Log

Click **System Log** from any Status screen to generate the *System Log* screen. This screen displays the Gateway's system log, which keeps track of all events that occur on the Gateway.



Configuring Wireless Settings

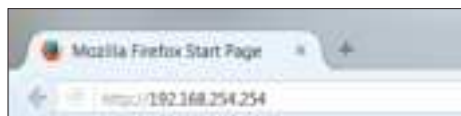
4

This chapter explains the options provided in the *Wireless Settings* section of the Gateway's firmware, including basic and advanced settings, and WPS.

Accessing Wireless Settings

To access the Wireless Settings screens:

1. Open a Web browser. In the *Address* text box, type:
<http://192.168.254.254>
then press **Enter** on the keyboard.



2. The Gateway’s Main screen appears. Enter the user name and password, then click **Wireless Settings** from the row of icons at the top of the screen.



3. The *Basic Settings* screen appears, with a menu of other wireless options listed on the left side of the screen.



Basic Settings

Click **Basic Settings** from any Wireless Settings screen to generate the *Basic Settings* screen, as shown in the figure above. This screen displays a series of settings relating to the basic functionality of the Gateway’s wireless network, including SSID (network name), frequency, and security.

Changing the Wireless Network Name (SSID)

To change the name of the Gateway’s wireless network, enter the new name in the *SSID Name* text box in the *Basic Settings* screen, then click **Apply**.

Changing the Wireless Key/Passphrase

To change the passphrase for the Gateway's wireless SSID, at the Security Key Type, press the button for Use Custom Key/Passphrase, enter the desired Wireless Key/Passphrase in the text box, then click **Apply**.

Enabling SSID Guest Option

Enabling this option in the *Basic Settings* screen allows guest users to access the Gateway's wireless Internet connection, while preventing these users from accessing other wireless devices, including network printers or other unsecured network devices. To enable, click in the *Enable* button next to *SSID Guest*, then click **Apply**.

Advanced Settings

Click **Advanced Settings** from any Wireless Settings screen to generate the *Advanced Settings* screen. This screen displays a series of settings relating to the advanced capabilities of the Gateway's wireless network, including compatibility mode, channel width, and WMM power save.

The screenshot shows the 'Advanced Settings' interface. At the top, it states: 'The modem supports high-speed wireless features using the IEEE 802.11n protocol. Enable and tune 802.11n's parameters as appropriate.' Below this, several settings are listed on the left, with their corresponding values or options on the right:

- Frequency**: 2.4 GHz
- Compatibility Mode**: 802.11b/g/n
- Channel Width**: 40 MHz
- Control Channel**: Auto
- MCS4 Aggregation**: MCS4 aggregation Enabled
- MCS4 Aggregation**: MCS4 aggregation Enabled
- WMM**: ☒ Enable ☐ Disable
- WMM Power Save**: ☒ Enable ☐ Disable
- Channel**: Auto (Selected) | **Channel**: 11 (Channel: 11)
- Scheduled Optimization**: ☐ Enable ☒ Disable
- Wireless Power Level**: 100%

A green 'Apply' button is visible at the bottom left of the screen.

WPS

Click **WPS** from any Wireless Settings screen to generate the *WPS (Wi-Fi Protected Setup)* screen, which allows the user to configure WPS by following the onscreen instructions.



The screenshot shows the 'WPS (Wi-Fi Protected Setup)' configuration screen. At the top, it says 'WPS provides an easy and secure way to establish a wireless network by sharing the wireless key between the modem and wireless client.' Below this, there are two radio buttons for 'Frequency': '2.4G' (selected) and '5G'. Under 'Select SSID', there is a dropdown menu showing 'WPS_70000E'. A section titled '1. Set the WPS state.' contains two radio buttons: 'Enable' (selected) and 'Disable'. A second section titled '2. Click Apply to save changes.' is at the bottom, with a green 'Apply' button.

MAC Address Control

Click **MAC Address Control** from any Wireless Settings screen to generate the *Wireless MAC Authentication* screen, which allows the user to configure allow or deny access to the Gateway's wireless network using the MAC address of the wireless device. (Note: this feature only works if *Band Steering* is **DISABLED**.) Follow the onscreen instructions to configure.

Wireless MAC Authentication

Limit access to the modem by using the MAC address of specific wireless devices.

Frequency: ☒ 5G ☐ 2.4G

1. Select SSID from the pull down menu.

SSID:

2. Set MAC authentication status.

Mac Authentication: ☐ Enable ☒ Disable

3. Select Allow device list or Deny device list.

☐ Allow device list Denies all devices except those added in step 4.

☐ Deny device list Allows all devices except those added in step 4.

4. Enter the MAC address of the wireless LAN device.

Select MAC Address: Manually Add MAC Address:

or

[Example MAC Address: 00:2D:60:00:45:00]

5. Click Apply to save changes.

MAC Authentication Device List

DEVICE NAME	IP ADDRESS	MAC ADDRESS	ACCESS	EDIT
No Entries Defined				

WDS

Click **WDS** from any Wireless Settings screen to generate the *WDS Wireless Distribution System* screen, which allows the user to configure the Gateway to allow wireless interconnection of access points via a wireless connection. Follow the onscreen instructions to configure.



The screenshot shows the 'WDS Wireless Distribution System' configuration screen. At the top, the title 'WDS Wireless Distribution System' is centered. Below it, a descriptive line states: 'WDS allows the wireless interconnection of access points via a wireless connection.' The first configuration option is 'Frequency:', with two radio buttons: '5G' (which is selected) and '2.4G'. Below this, a step instruction reads: '1. Set the WDS main base station state.' The next option is 'WDS Main Base Station:', with two radio buttons: 'Enable' and 'Disable' (which is selected). A second step instruction follows: '2. Click Apply to save your changes.' At the bottom left, there is a green 'Apply' button.

Band Steering

Click **Band Steering** from any Wireless Settings screen to generate the *Band Steering Configuration* screen, which allows the user to configure the Gateway to automatically connect 2.4GHz and 5GHz wireless devices to the appropriate wireless network bandwidth. Also, this screen can be used to assign a certain wireless network and/or bandwidth to a particular wireless device. Follow the onscreen instructions to configure.



Configuring Firewall Settings

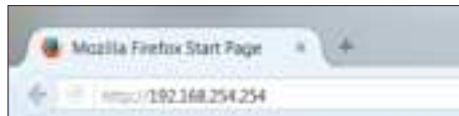
5

This chapter explains the options provided in the *Firewall* section of the Gateway's firmware, including setting up port forwarding and static NAT.

Accessing Firewall Settings

To access the Firewall screens:

1. Open a Web browser. In the *Address* text box, type:
<http://192.168.254.254>
then press **Enter** on the keyboard.



The Gateway's Home screen appears. Click the *Firewall* icon.



2. The *Firewall* screen appears, with a menu of other wireless options listed on the left side of the screen.



Firewall

Click **General** from any Firewall Settings screen to generate the *Firewall* screen, as shown in the figure above. To configure basic settings of the Gateway's firewall, follow the onscreen instructions.

Configuring Firewall Settings

IPv6 Firewall

Click **IPv6 Firewall** from any Firewall Settings screen to generate the *IPv6 Firewall* screen. To set up, follow the onscreen instructions.

IPv6 Firewall

Adjusting the firewall is optional. When the firewall is activated, security is enhanced, but some network functionality may be lost.

1. Select the **stable mode state**. When **stable mode** is enabled, the network will not respond to unsolicited Web traffic, including pings.

Stable Mode: ☒ Enable ☐ Disable

2. Select the **IP address or IP addressing type** to which the firewall rules will apply.

Addressing Type: 

3. Set the **Firewall Security Level**.

Security Level: 

[Learn More](#)

4. Set the **Firewall table, below**. Services checked are allowed. (optional)

Service	Service Type	Service Port	Traffic In	Traffic Out
SSH	Secure Shell	22 (SSH) 2200 (SFTP) 2201 (SCP)	☒	☒
SSH	SSH	22	☒	☒
FTP	File Transfer	20, 21	☒	☒
FTS	Secure File Transfer	222	☒	☒
HTTP	HTTP	80, 8080	☒	☒
HTTPS	Web Service	443	☒	☒
SMTP	Mail Service	25	☒	☒
IMAP	Internet Mail Service	143	☒	☒
SMTP Relay Service	Mail Service	587	☒	☒
IMAP Relay Service	Mail Service	143	☒	☒

Port Forwarding

Click **Port Forwarding** from any Firewall screen to generate the *Port Forwarding* screen. Activating port forwarding allows the network to be exposed to the Internet in certain limited and controlled ways, enabling some applications to work from the local network (game, voice, and chat applications, for example), as well as allowing Internet access to servers in the local network. This screen allows you to configure the port forwarding settings of the Gateway. If changes are made in this screen, click **Apply** at the bottom of the screen to save them.

Port Forwarding

Enter ports or port ranges required to forward Internet applications to a LAN device below.

1. Set the LAN/WAN port and IP information.

Select LAN Device: Manually enter the IP address ▾

LAN IP Address:

External (WAN) Start Port:

External (WAN) End Port:

Internal (LAN) Start Port:

Internal (LAN) End Port:

Protocol: TCP ▾

2. Click Apply to save changes.

Apply

Applied Port Forwarding Rules

LAN START/END PORT	PROTOCOL	LAN IP ADDRESS	WAN START/END PORT	MODIFY	REMOVE
No Entries Defined					

Port forwarding settings should only be adjusted by experienced technical users who are extremely familiar with networking concepts.

Applications

Click **Applications** from any Firewall screen to generate the *Applications* screen. This screen allows the user to designate certain applications to be forwarded, circumventing the usual firewall security settings. If changes are made in this screen, click **Apply** at the bottom of the screen to save them.

Applications

Applications Forwarded ports to the selected IP address to application name

1. Select Details.

Select Device:

Hardware: enter the IP address

Enter IP address:

2. Select the application category, then the application to forward.

Application Category:

all

Applications:

chrome on Windows

Apply

3. Click Apply to save changes.

Apply

Forwarded Applications List

DEVICE NAME	IP ADDRESS	APPLICATION FORWARDED	PORT
No device found			

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DMZ Hosting

Click **DMZ Hosting** from any Firewall screen to generate the *DMZ Hosting* screen. The DMZ host feature allows one device on the network to operate outside the firewall to use an Internet service that otherwise would be blocked, or to expose a networked device to all services without restriction or security. To activate, click in the *Enable* radio button, then enter the device's IP address in the appropriate text boxes.

DMZ Hosting

DMZ Hosting enables a web device to use the router's static IP address as its own. DMZ places the web device outside the firewall.

WARNING: Using a device as DMZ host creates a security risk by exposing the device to outside networks.

1. Set the DMZ state:

DMZ ☐ Enable ☒ Disabled

2. Select a device:

Select Device: Static IP Address:

3. DMZ Times:

DMZ Start:

4. Click Apply to save changes:

DMZ Hosted Device

DEVICE NAME	IP ADDRESS	DMZ Times	EDIT
No DMZ Hosted Devices			

Caution! A DMZ host is not protected by the firewall and may be vulnerable to attack. Designating a DMZ host may also put other computers in the local network at risk. When designating a DMZ host, consider the security implications and protect it if necessary.

IPv6 DMZ Hosting

Click **IPv6 DMZ Hosting** from any Firewall screen to generate the *IPv6 DMZ Hosting* screen. The DMZ host feature allows one device on the network to operate outside the firewall to use an Internet service that otherwise would be blocked, or to expose a networked device to all services without restriction or security. To activate, follow the onscreen instructions.

IPv6 DMZ Hosting

DMZ hosting enables a LAN device to use the modem's WAN IP address as its own. DMZ places the LAN device outside the firewall.

WARNING! Using a device in DMZ mode creates a security risk by exposing the device to outside intrusion.

1. Enter an IPv6 Address.

Enter The last 64 bits of IPv6 Address:

2. Click Apply to save changes.

IPv6 DMZ Hosted Device

IP ADDRESS	EDIT
No Entries (Default)	

Caution! A DMZ host is not protected by the firewall and may be vulnerable to attack. Designating a DMZ host may also put other computers in the local network at risk. When designating a DMZ host, consider the security implications and protect it if necessary.

UPnP

Click **UPnP** from any Firewall screen to generate the *UPnP* screen, which activates UPnP (Universal Plug and Play). To activate, set the preferred UPnP options, then click **Apply**.

UPnP

Follow the steps below to enable or disable UPnP (Universal Plug and Play).

1. Set the UPnP state.

UPnP: ☒ Enable ☐ Disable

UPnP Log: ☐ Enable ☒ Disable

UPnP Ports: ☐ Fixed ports ☒ Fixed ports

2. Click Apply to save changes.

Apply

Advanced Settings

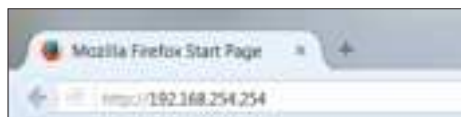
6

This chapter explains the options available with the Advanced Setup screens, which configure some of the more complex settings on the Gateway.

Accessing the Advanced Setup Screens

To access the Gateway's Advanced Setup screens:

1. Open a Web browser. In the Address text box, type:
<http://192.168.254.254>
then press Enter on the keyboard.



2. The Gateway's Main screen appears. Click the Advanced Setup icon.



Windstream T3260 Gateway

3. A WARNING screen appears. Technicians can click PROCEED to configure the Advanced Settings of the gateway.



- 4.** The Services Blocking screen appears.



Advanced Settings

From here, all the Advanced Setup screens can be accessed from the menu on the left.

Services Blocking

Click Services Blocking from any Advanced Setup screen to generate the Services Blocking screen (see the figure, above). This feature allows the user to block certain services from accessing the Gateway's network(s). Follow the onscreen instructions to configure.

Website Blocking

Click Website Blocking from any Advanced Setup screen to generate the Website Blocking screen. This feature allows the user to block certain websites from accessing the Gateway's network(s). Follow the onscreen instructions to configure.

The screenshot shows a web interface titled "Website Blocking". Below the title, there is a sub-header "Website Blocking" and two numbered instructions: "1. To block a specific website, enter the website address (such as www.abcd.com) in the text box below." and "2. Click Apply to save changes." Below the instructions, there is a text input field labeled "Website address:". To the right of the input field is a green button labeled "Apply". Below the "Apply" button, there is a section titled "Blocked Websites". Under this section, there is a table with two columns: "Website Blocked" and "EDIT". The table currently contains one row with the text "No Entries Defined" in the "Website Blocked" column.

Website Blocked	EDIT
No Entries Defined	

Scheduling Access

Click Scheduling Access from any Advanced Setup screen to generate the Scheduling Access screen. This feature allows the user to schedule access to the Gateway's network(s) for certain devices. Follow the onscreen instructions to configure.

Scheduling Access

Schedule Rules allows the network to set a specific time period during which a computer on the network can access the Internet.

1. Select Device.

Select Device:

Manually enter the MAC address:

Enter MAC Address:

2. Select the days of the week to allow Internet access.

☒ checked box indicates access allowed:

☐ Sun
 ☐ Mon
 ☐ Tue
 ☐ Wed
 ☐ Thur
 ☐ Fri
 ☐ Sat

3. Select the time of day range from the drop-down list.

From:

To:

4. Click Add to create device schedule.

Add

Device Access Restrictions List

Device Name	MAC Address	Allowed Days	Allowed Times	1/0/0
No Entries Defined				

Parental Controls

Click Parental Controls from any Advanced Setup screen to generate the Parental Controls Configuration screen. This feature allows the user to allow or prevent access to certain websites for devices on the Gateway's network. Follow the onscreen instructions to configure.



WAN IP Addressing

Click WAN IP Addressing from any Advanced Setup screen to generate the WAN IP Address screen. This feature allows the user to set the protocol used by the ISP for Internet access. Follow the onscreen instructions to configure.

WAN IP Address

WAN IP Addressing sets the protocol used by your ISP for Internet access.

1. Connect WAN interface to WAN Ethernet.
2. Select the ISP protocol below.
 - ☐ PPPoE
 - ☒ RFC 3493 via DHCP
 - ☐ RFC 3493 via Static IP
3. If your ISP Provider requires Host Name/Username Name, enter it here.

Host Name:

Username Name:
4. Select the DNS type.
 - ☒ Dynamic DNS Addresses (Default)
 - ☐ Static DNS Addresses

Primary DNS:

Secondary DNS:
5. Configure DMZ Proxy.
 - ☒ Enable
 - ☐ Disable
6. Enter the VLAN parameters.

VLAN ID:

(1 - 4094)

VLAN Priority:

(0 - 7)
7. Click Apply to save changes.

IPv6 WAN Settings

Click IPv6 WAN Settings from any Advanced Setup screen to generate the IPv6 WAN Settings screen. This feature allows the user to set the IPv6 protocol used by the ISP for Internet access. Follow the onscreen instructions to configure.

WARNING: This setting should be configured by experienced network technicians only, since any changes could affect the Gateway's IPv6 service.

The screenshot shows the 'IPv6 WAN Settings' configuration interface. At the top, it states 'IPv6 is the next generation of IP addressing.' Below this, there are five numbered steps for configuration:

- 1. Set the IPv6 state.**
IPv6: ☒ Enable ☐ Disable
- 2. Select the WAN IPv6 connection protocol.**
WAN IPv6 IP Protocol:
- 3. Set the WAN IPv6 Addressing Type.**
Request PG Only: ☒ Yes ☐ No
- 4. Set the WAN IPv6 DNS Server.**
IPv6 DNS Type: ☒ Default Servers ☐ Custom Servers
- 5. Click Apply to save changes.**

At the bottom left, there is a green 'Apply' button.

How to Set the T3200 to RFC1483 Transparent Bridge

From the WAN IP Address screen, select RFC 1483 Transparent Bridging and click Apply. The gateway will allow the WAN IP address to pass-through to the device connected to LAN Port 1 Only.



The screenshot shows the Windstream T3260 Gateway web interface. The top navigation bar includes links for Home, Status, Wireless Setup, Firewall, and Advanced Setup. The left sidebar contains a menu with categories like Blocking/Filtering, IP Address, Security, Storage Service, and Modern Utilities. The main content area is titled "WAN IP Address" and contains the following steps:

1. Current WAN interface is WAN Ethernet.
2. Select the ISP protocol below.
 - ☐ PPPoE
 - ☒ RFC 1483 Transparent Bridging
 - ☐ RFC 1483 via DHCP
 - ☐ RFC 1483 via Static IP
3. Enter your PPP username and password.

PPP Username:

PPP Password:
4. Select the DNS type.
 - ☒ Dynamic DNS Addresses (Default)
 - ☐ Static DNS Addresses

Primary DNS:

Secondary DNS:
5. Configure IGMP Proxy.
 - ☒ Enable
 - ☐ Disable
6. Enter the VLAN parameters.

VLAN ID: (-1 -- 4094)

VLAN Priority: (0 -- 7)
7. Click Apply to save changes.

LAN IP Settings

Click LAN IP Settings from any Advanced Setup screen to generate the LAN IP and DHCP Settings screen. This feature allows the user to set LAN IP and DHCP server settings on the Gateway. Follow the onscreen instructions to configure.

LAN IP And DHCP Settings

Before configuring the LAN, make the sure to determine the address of the device, and change the LAN IP and DHCP settings if necessary. The LAN IP address will be used to connect the device to the Internet. The LAN IP address will be used to connect the device to the Internet.

1. To make changes, enter the new IP address in the field below.

Primary IP Address:

Subnet Mask:

2. Click Apply and Return to save your changes.

Apply and Return

The router is configured with an IP address to connect to the Internet.

3. Set the IP addressing values.

Starting IP Address:

Ending IP Address:

Lease Time:

4. Set the DHCP server lease time.

IP Lease Time: Days Hours Minutes

5. Set the DNS values.

DNS Server 1:

☐ DNS relay performed by Internet Gateway

☐ DNS relay from WAN connection

☐ DNS relay from LAN connection

DNS Server 2:

☐ DNS relay performed by Internet Gateway

☐ DNS relay from WAN connection

☐ DNS relay from LAN connection

6. Click Apply to save changes.

Apply

How to Manually Set the T3200 for Static IP

From the WAN IP Address screen, select RFC 1483 via Static IP. Enter the IP address to be assigned to the Gateway, the subnet mask and the IP Address of the Default Gateway. Click Apply.

The screenshot shows the Windstream T3260 Gateway web interface. The top navigation bar includes icons for Home, Status, Network Setup, Services, and Advanced Setup. The left sidebar contains a tree view with categories like Monitoring & Alerting, IP Address, Security, Storage Services, and Network Utilities. The main content area is titled "WAN IP Address" and contains the following steps:

1. Click the WAN interface in WAN tabbed.
2. Select the IP protocol below.
 - ☐ dhcp
 - ☐ static transparent bridging
 - ☐ static static ip (static)
 - ☒ static static ip (static)
3. Select the IP type.
 - ip:
 - subnet mask:
 - default gateway address:
4. Select the DNS type.
 - ☒ Dynamic DNS addresses (Default)
 - ☐ Static DNS addresses
 - Primary DNS:
 - Secondary DNS:
5. Configure NAT rules.
 - ☐ enable
 - ☐ disable
6. Enter the LAN parameters.
 - LAN ID: (1 - 1000)
 - LAN Priority: (0 - 7)
7. Click apply to save changes.

A green "Apply" button is visible at the bottom of the configuration area.

IPv6 LAN Settings

Click IPv6 LAN Settings from any Advanced Setup screen to generate the IPv6 LAN Settings screen. This feature allows the user to set the IPv6 LAN IP settings on the Gateway. Follow the onscreen instructions to configure.

IPv6 LAN Settings

IPv6 is the next generation of IP addressing.

1. Set the IPv6 LAN connection type.

LAN Connection Type:

Internet

2. Set the IPv6 LAN addressing values.

Profile name:

IPv6 local address:

FE80::101:10P402P:0000

IPv6 Subnets:

☐ Enable ☒ Disable

Subnet Address:

0

Router advertisement address:

0A

 (Hex) (0 - 00)

3. Advanced setting.

Configured to LAN:

☐ Yes ☒ No

4. Click Apply to save changes.

Apply

DHCP Reservation

Click DHCP Reservation from any Advanced Setup screen to generate the DHCP Reservation screen. This feature allows the user to lease a permanent DHCP-allocated address to a client on the Gateway's network. Follow the onscreen instructions to configure.

DHCP Reservation

DHCP reservation leases a permanent DHCP allocated address to a client.

1. Select MAC Address, or manually enter a MAC address.

Select MAC Address:

Manually Add MAC Address:

2. Select an IP address to associate with a MAC address.

IP Address:

Manually Add IP Address:

3. Click Apply to save changes.

Dynamic DNS

Click Dynamic DNS from any Advanced Setup screen to generate the Dynamic DNS screen. This feature allows the user to associate the WAN IP address of the Gateway with a host name. Follow the onscreen instructions to configure.

Dynamic DNS

Dynamic DNS associates the WAN IP address of your modem with a host name. Dynamic DNS automatically updates DNS servers upon WAN IP address change.

1. Set the dynamic DNS state.

Dynamic DNS State: ☒ Enable ☐ Disable

2. Select the dynamic DNS provider.

Dynamic DNS provider:

3. Enter your username and password.

Username:

Password:

4. Enter the dynamic DNS host name.

Hostname:

5. Click Apply to save changes.

DNS Host Mapping

Click DNS Host Mapping from any Advanced Setup screen to generate the DNS Host Mapping screen. This feature allows the user to create a static host name for a specified IP address. Follow the onscreen instructions to configure.

DNS Host Mapping

DNS host mapping creates a static host name for the specified IP address. IPv4 and LAN IP addresses are supported.

1. Enter the DNS host name.

DNS Host Name:

2. Enter the IP address.

IP Address:

3. Click Apply to save changes.

DNS Host Mapping List

DEVICE NAME	IP ADDRESS	DNS NAME	EDIT
No Entries Defined			

IP QoS Upstream Settings

Log in as root to generate the IP QoS Upstream Settings screen. This feature allows the user to prioritize certain types of upstream data traffic over standard upstream data traffic. Follow the onscreen instructions to configure.

IP QoS Upstream Settings

Adding the IP QoS feature allows for the prioritization of various types of traffic (such as VoIP) before standard data traffic. Traffic sharing your network with VoIP can also increase application performance and prevent your network from becoming overloaded. Follow steps 1-4 below to setup IP QoS.

1. Specify Classification Name and Order.

Traffic Class Name:

Rule Order:

1437

2. Specify Classifications (Leave blank if criteria is not used for classification).

Ingress Interface:

LAN

Filter Type:

Source MAC Address:

Source MAC Mask:

Destination MAC Address:

Destination MAC Mask:

3. Specify Classification Action.

Assign Classification Queue:

Mark Differentiated Services Code Point (DSCP):

Set/Reset DSCP to priority code for video (none preconfigured):

Mark VLAN ID (0-4095) (only for VLANs (none preconfigured)):

Save

Upstream QoS Rules List

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IP QoS Downstream Settings

Log in as root to generate the IP QoS Downstream Settings screen. This feature allows the user to prioritize certain types of downstream data traffic over standard downstream data traffic. Follow the onscreen instructions to configure.

IP QoS Downstream Settings

Enabling the IP QoS feature allows for the prioritization of certain types of traffic (such as VoIP) versus standard data traffic. Traffic sharing your network with QoS can also decrease application performance and prevent your network from becoming overloaded. Follow Steps 1-3 below to setup IP QoS.

1. Specify Classification Name and Index.

Traffic Class Name:

Class Index:

2. Specify Classification Criteria (Mark if criteria is not used for classification).

Ingress Direction: ☐ Ingress ☐ Egress

Filter Type:

Source MAC Address:

Source MAC Mask:

Destination MAC Address:

Destination MAC Mask:

3. Specify Classification Action.

Average Classification Queue:

Mark Differentiated Services Code Point (DSCP):

Bandwidth (Kbps) for priority (only for G.711 & G.729 passthrough):

Bandwidth (Kbps) for DSCP (only for G.711 & G.729 passthrough):

Downstream QoS Rules List

IPv6 QoS

Log in as root to generate the IPv6 QoS Settings screen. This feature allows the user to prioritize certain types of IPv6 data traffic over standard IPv6 data traffic. Follow the onscreen instructions to configure.

IPv6 QoS Settings

IP QoS prioritizes traffic types (such as VoIP) before standard data traffic. Traffic shaping your network with QoS can increase application performance and prevent your network from becoming overloaded.

1. Set the QoS state.

QoS: ☒ Enable ☐ Disable

2. Set the QoS direction.

QoS Direction: ☒ Upstream ☐ Downstream

Ingress Interface: LAN ▾

3. Set the QoS parameters below.

Rule Name:

Mark Traffic Class: ▾

Queue Priority: Priority 1 ▾

4. Set the IP tag.

IP Tag: ☒ All IP Address ☐ Define IP Address

5. Click Apply to save changes.

QoS Rule List

Name	Priority	IP Tag	Direction	Edit
------	----------	--------	-----------	------

Remote GUI

Log in as root to generate the Remote GUI screen. This feature allows the user to access the Gateway's graphical user interface from a remote location. Follow the onscreen instructions to configure.

Remote GUI

If you want to access the web interface of the modem remotely, you must activate Remote GUI, the username and password for Remote GUI is root username and password.

Remote GUI is default set to port 50560 for HTTPS access. If port 50560 has been forwarded to a device on the LAN you will need to change the default remote GUI port below to allow for remote access. To access your modem remotely you will need to use https:// followed by the modem IP.

1. Set the remote GUI state below.

Remote GUI: ☒ Enable ☐ Disable

2. Set the remote management port.

Remote Management Port:

3. Set the remote management timeout.

Disable Remote Management After:

4. Click Apply to save changes.

Remote Telnet

Log in as root to generate the Remote Telnet screen. This feature allows the user to access the Gateway from a remote location via telnet. Follow the onscreen instructions to configure.

Remote Telnet

Remote Telnet provides access to the modem remotely via telnet.

1. Set the remote telnet state below.

Remote Telnet: ☐ Enable ☒ Disable

Local Telnet: ☐ Enable ☒ Disable

2. Set the idle disconnect time below.

Idle Disconnect After:

3. Click Apply to save changes.

Dynamic Routing

Click Dynamic Routing from any Advanced Setup screen to generate the Dynamic Routing (RIP) screen. This feature allows the user to set up the Gateway on the network behind a modem using dynamic routing. Follow the onscreen instructions to configure.

Dynamic Routing (RIP)

If a device is set up behind the modem in the network, consult the documentation that came with the device to see what kind of Dynamic Routing is required.

1. Select the dynamic routing type.

☐ Version 1

☐ Version 2

☒ CR

2. Click Apply to save changes.

Admin Password

Click Admin Password from any Advanced Setup screen to generate the Admin Password screen. This feature allows the user to change the password for accessing the Gateway's graphical user interface. Follow the onscreen instructions to configure.

Admin Password

A strong password prevents outsiders from accessing the modem's web interface. You will need to enter this password every time you access the modem's web interface.

1. Enter the old and new passwords.

Username: admin

Old Password:

New Password:

Confirm your password:

2. Click Apply to save changes.

[Apply](#)

Storage Device Info

Click Storage Device Info from any Advanced Setup screen to generate the Storage Service screen. This feature allows storage devices connected to the Gateway to be easily accessed. Any storage devices connected to the Gateway will be listed in the table at the bottom of the screen.

Storage Service			
The Storage service allows storage devices connected to the modem to be more easily accessed.			
Volume Name	Filesystem	Total Space	Used Space
No Storage Device Found			

Samba Configuration

Click Samba Configuration from any Advanced Setup screen to generate the Samba Configuration screen. This feature allows the user to set up a Samba environment. Follow the onscreen instructions to configure.



The screenshot shows the 'Samba Configuration' window. At the top, it says 'Samba Configuration'. Below that, there are two radio buttons: 'Share' (selected) and 'User'. Under 'Share', there are four input fields: 'Samba Username:' with the value 'admin', 'Samba Password:' with masked characters '*****', 'Device Name:' with a dropdown menu showing 'C:', and 'Workgroup:' with the value 'workgroup'. A green 'Next' button is at the bottom left.

Reboot

Click Reboot from any Advanced Setup screen to generate the Reboot screen. Reboot the Gateway by clicking Reboot.



The screenshot shows the 'Reboot Modem' window. At the top, it says 'Reboot Modem'. Below that, there is a message: 'To restart the modem, click Reboot.' At the bottom, there is a button labeled 'Reboot Modem' with a green 'Next' button to its right.

Restore Defaults

Click Restore Defaults from any Advanced Setup screen to generate the Restore Defaults screen. To restore certain settings on the Gateway, click the appropriate Restore button.



Upgrade Firmware

Click Upgrade Firmware from any Advanced Setup screen to generate the Upgrade Firmware screen. To upgrade the Gateway's firmware, follow the onscreen instructions.



Check for New Firmware Link

Click Check for new firmware link from any Advanced Setup screen to generate the Upgrade firmware from Internet screen. To upgrade the Gateway’s firmware from the Internet automatically, click Upgrade.



Speed Test

Click Speed Test from any Advanced Setup screen to generate the Speed Test screen. This screen allows the user to perform a speed test on the Gateway’s Internet (or WAN) connection. Enter the URL for a server at a speed test site, then click Test.



Ping Test

Click Ping Test from any Advanced Setup screen to generate the Ping Test screen. To perform a ping test on the Gateway, follow the onscreen instructions.

Ping Test

Test your Internet connectivity by a specific host using the ping test below.

1. Insert a URL or IP address below.

URL or IP:

2. Select the packet size.

Packet Size (Bytes):

3. Select test.

Test Status:

100 Test 0 Progress

Ping Test Results:

REPLY FROM	BYTES	TIME	TTL
100	100	100	100
100	100	100	100
100	100	100	100
100	100	100	100
100	100	100	100

Ping Statistics:

PACKETS SENT	PACKETS RECEIVED	PACKETS LOSS	ROUND TRIP MIN	ROUND TRIP MAX	ROUND TRIP AVG
--------------	------------------	--------------	----------------	----------------	----------------

Tcpdump Debug

Click Tcpdump Debug from any Advanced Setup screen to generate the Tcpdump Debug screen. This screen allows the user to copy the packet capture file to a USB flash drive connected to the Gateway, along with the CFE and wireless configuration files, for debugging purposes. Follow the onscreen instructions to complete.

Tcpdump Debug

Tcpdump will copy the packet capture (.pcap) file to the USB flash connected to the system. Also, the CFE and wireless configuration files will be copied to the USB flash.

1. Select the interface to debug.
Tcpdump Interface:
2. Select the packet size to debug.
Packet Size:
3. Select the filename of dump file stored in the USB flash.
File Name:
4. Select the duration of debug.
Tcpdump Timeout/Seconds:

Yes

Iperf Test

Click Iperf Test from any Advanced Setup screen to generate the Iperf Test screen. To perform an iperf test on the Gateway, follow the onscreen instructions.

Iperf Test

Test your network throughput for bandwidth, latency.

1. Select Iperf Mode.

Client ▾

2. Select port to listen or connect to.

port: 5001

3. Select Report interval.

report interval: 10 seconds

4. Select protocol.

Protocol: TCP ▾

connection size: 100 Bytes

5. Select Maximal options.

☐ Maximal Bytes: 1000 Bytes

☐ Maximal Time: 10 seconds

6. Host.

URL or IP:

7. Select test.

Go

IPv6 Ping Test

Click IPv6 Ping Test from any Advanced Setup screen to generate the IPv6 PingTest screen. To perform an IPv6 ping test on the Gateway, follow the onscreen instructions.

IPv6 Ping Test

Test the Modem's Internet connectivity to a specific host using the Ping Test feature.

1. Insert a URL or IP address below.

URL or IP:

2. Select the interface.

Interface Name:

3. Select the packet size.

Packet Size (bytes):

4. Select test.

Ping test results.

Reply From	Bytes	Time	TTL
192.168.1.1	64	0.04	64
192.168.1.1	64	0.04	64
192.168.1.1	64	0.04	64
192.168.1.1	64	0.04	64

Ping Statistics

Packets Sent	Packets Received	Packets Lost	Round Trip Minimum	Around Trip Maximum	Around Trip Average
4/4	4/4	0/4	0.04	0.04	0.04

Traceroute

Click Traceroute from any Advanced Setup screen to generate the Traceroute screen. To perform an route trace on the Gateway, follow the onscreen instructions.

Traceroute

Traceroute is used to determine the route taken by packets across a network.

1. Insert a URL or IP Address below.

URL or IP:

2. Select test.

Test

Test Status

No Test in Progress

Traceroute Results

Step	Time 1	Time 2	Time 3	Host / IP Address
100	100	100	100	100
100	100	100	100	100
100	100	100	100	100
100	100	100	100	100
100	100	100	100	100

IPv6 Traceroute

Click IPv6 Traceroute from any Advanced Setup screen to generate the IPv6 Traceroute screen. To perform an IPv6 route trace on the Gateway, follow the onscreen instructions.

IPv6 Traceroute

Traceroute is used to determine the route taken by packets across a network.

1. Enter a URL or IP address in the text box, below.

URL or IP:

2. Select test.

Test

Traceroute Results

Hop	Time 1	Time 2	Time 3	Host / IP Address
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

Time Zone

Click Time Zone from any Advanced Setup screen to generate the Time Zone screen. Use this screen to set the time zone on the Gateway.



The screenshot shows the 'Time Zone' configuration screen. At the top, it says 'Time Zone'. Below that, it says '1. Please select your Time Zone. [Current Time: September 22 07:07 P.M.]'. There are four radio button options: 'GMT -8:00 Pacific Time', 'GMT -7:00 Mountain Time', 'GMT -6:00 Central Time', and 'GMT -5:00 Eastern Time'. The 'GMT -5:00 Eastern Time' option is selected. Below the options, it says 'All Day Light Saving'. At the bottom, it says '2. Click Apply to save changes.' and there is a green 'Apply' button.

Language Settings

Click Language Settings from any Advanced Setup screen to generate the Language Settings screen. Use this screen to set the language on the Gateway's graphical user interface.



The screenshot shows the 'Language Settings' configuration screen. At the top, it says 'Language Settings'. Below that, it says '1. Select your preferred language'. There is a dropdown menu with 'Auto-detect' selected. At the bottom, it says '2. Click Apply to save changes.' and there is a green 'Apply' button.

DNS Cache

Click DNS Cache from any Advanced Setup screen to generate the DNS Cache screen. Use this screen to set up a DNS cache on the Gateway.

DNS Cache

The modem provides DNS Caching ability. In most cases, DNS Caching allows a DNS Server to respond more quickly to multiple queries for the same domain or host.

Note: although DNS Caching can resolve an Internet request more quickly, it also poses risks, such as DNS Poisoning.

1. Select Disable or Enable DNS Cache.

☒ Disable (Recommended)

☐ Enable

2. Click Apply to save changes.

IGMP Setting

Click IGMP Setting from any Advanced Setup screen to generate the IGMP Configuration screen. Use this screen to set up IGMP processes on the Gateway.

IGMP Configuration

IGMP Forwarding

IGMP Forwarding Enable:

☒

Standard Mode:

☐

Blocking Mode:

☐

IGMP Protocol

Default Version:

version 2

Query Interval:

Query Response Interval:

Last Member Query Interval:

Robustness Value:

Maximum Multicast Groups:

Maximum Multicast Table Entries (for IGMPv2):

Maximum Multicast Group Members:

Fast Leave Enable:

☐

L2 to L3 (for L2):

☐

Multicast Enable:

☒

Save

Upgrade History

Click Upgrade History from any Advanced Setup screen to generate the Upgrade History screen. This screen displays a list of firmware upgrades applied to the Gateway.



ALG

Click ALG from any Advanced Setup screen to generate the Firewall - ALG / Pass-Through screen. This screen allows the user to configure ALG settings on the Gateway.



Tool Box

Click Tool Box from any Advanced Setup screen to generate the Tool Box screen. This screen allows the user to configure traffic and port mirroring on the Gateway.



The screenshot shows the 'Tool Box' configuration screen. At the top, it says 'Tool Box' in bold. Below that, a note states: 'Tool Box provides troubleshooting tools for the modem. Do not enable the Tool Box features unless you are a qualified network technician.' There are three numbered steps: 1. 'Set the traffic type to mirror.' with a 'Traffic Type' dropdown menu set to 'None'. 2. 'Select the port to be mirrored.' with another 'Traffic Type' dropdown menu set to 'None'. 3. 'Click Apply to save changes.' with a green 'Apply' button at the bottom.

DLNA

Click DLNA from any Advanced Setup screen to generate the DLNA screen. This screen allows the user to configure DLNA settings on the Gateway.



The screenshot shows the 'DLNA' configuration screen. At the top, it says 'DLNA' in bold. Below that, step 1 says 'Set the DLNA server state.' with 'DLNA' and 'Media Library Path' labels. The 'DLNA' label has two radio buttons: 'Disable' and 'Enable', with 'Enable' selected. The 'Media Library Path' label has a text input field. Step 2 says 'Click Apply to save changes.' with a green 'Apply' button at the bottom.

xDSL Diagnostics

Click xDSL diagnostics from any Advanced Setup screen to generate the xDSL Diagnostics screen. This screen allows the user to select a type of diagnostics on the Gateway.



Print Server

Click Print Server from any Advanced Setup screen to generate the Print Server screen. This screen allows the user to select and configure a print server for the Gateway's network.



The image shows a screenshot of the 'Print Server' configuration screen. The title 'Print Server' is centered at the top. Below the title, there is a section '1. Set the Print Server state.' containing a 'Print Server:' label and two radio buttons: 'Enable' (which is selected) and 'Disable'. Below this, there are two text input fields: 'Printer name:' and 'Make and model:'. At the bottom of the screen, there is a section '2. Click Apply to save changes.' with a green 'Apply' button.

Print Server

1. Set the Print Server state.

Print Server: ☐ Enable ☒ Disable

Printer name:

Make and model:

2. Click Apply to save changes.

Apply

Specifications



General

Model Number(s)

T3260 (Wireless 11ac Bonded VDSL2 Modem Gateway)

Standards

IEEE 802.3 (10BaseT)
IEEE 802.3u (100BaseTX)
IEEE 802.11 b, g, n, ac (Wireless)
G.dmt
G.lite
t1.413
RFC 1483, 2364, 2516

Protocol

LAN - CSMA/CD
WAN - PPP, DHCP, Static IP

WAN

VDSL2 interface

LAN

10/100/1000 RJ-45 switched ports

Speed

LAN Ethernet: 10/100/1000 Mbps auto-sensing
Wireless: 802.11a, b, g, n, ac; 900 Mbps optimal (see Wireless Operating Range for details)

Cabling Type

Ethernet 10BaseT: UTP/STP Category 3 or 5

Ethernet100BaseTX: UTP/STP Category 5

Wireless Operating Range

Indoors

Up to 91M (300 ft.) @ 300 Mbps

Outdoors

Up to 457M (1500 ft.) @ 300 Mbps

Topology

Star (Ethernet)

LED Indicators

WAN, Wireless, and WPS Push Button

Power Adapter

Model No. - CDS036-W120U

Input - 100-240V~, 50/60Hz, 1.0A

Output - 12.0V === 3.0A

Manufacturer - Actiontec

Environmental

Power

External, 12V DC, 3A

Certifications

FCC Part 15 Class B, Class C and E, FCC Part 68, UL

Operating Temperature

0° C to 45° C (32°F to 113°F)

Storage Temperature

-20°C to 70°C (-4°F to 158°F)

Operating Humidity

10% to 85% non-condensing

Storage Humidity

5% to 90% non-condensing

Notices

Warranty

This product has a one-year Limited Hardware Warranty and 90-day free software updates from date of purchase.

Local Law

This Limited Warranty Statement gives the customer specific legal rights. The customer may also have other rights, which vary from state to state in the United States, and from country to country elsewhere in the world.

To the extent that this Limited Warranty Statement is inconsistent with local law, this Statement shall be deemed modified to be consistent with such local law. Under such local law, certain disclaimers and limitations of this Warranty Statement may not apply to the customer.

Go to <http://www.actiontec.com/products/warranty.php> for more information.

Important Safety Instructions

Basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and personal injury, including the following:

- Do not use this product near water – for example, near a bathtub, kitchen sink, laundry tub, or swimming pool, or in a wet basement; only clean with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus including amplifiers that produce heat.
- Do not use the telephone to report a gas leak in the vicinity of the leak.
- Use only the power cord indicated in this manual.

Coaxial Cable

If applicable, the coaxial cable screen shield needs to be connected to the Earth at the building entrance per ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, “Grounding of Outer Conductive Shield of a Coaxial Cable,” or in accordance with local regulation.

FCC Class B Equipment

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by implementing one or more of the following measures:

- Reorient or relocate the device;
- Increase the separation between the equipment and receiver;
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Actiontec Electronics, Inc, may void the user's authority to operate the equipment.

Declaration of Conformity for Products Marked With the FCC Logo

This device complies with part 15 of the FCC. Operation is subject to the following two conditions:

1. This device may not cause harmful interference;
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

Important Note on Wi-Fi

If applicable, this equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

The radio has been found to be compliant to the requirements set forth in CFR 47 Sections 2.1091, 15.247 (b) (4), 15.407 addressing RF Exposure from radio frequency devices as defined in Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields. The equipment should be installed more than 30 cm (~12 in.) from your body or nearby persons.

For product available in the USA market, only channel 1~11 can be operated. Selection of other channels is not possible.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

The maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comp with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

The transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Contact Info

For questions regarding your product or the FCC declaration, contact:

Actiontec Electronics, Inc

3301 Olcott St, Santa Clara, CA 95054, United States

Tel: (408) 752-7700