

[Configuring Pinholes/Port Forwarding](#)
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[Weak Security Concerns \(wireless\) For New Devices \(Apple Products\)](#)

Configuring Pinholes/Port Forwarding

- 1) From a web browser, go to "http://192.168.1.1". Login with the username "admin" and the password "seiadmin".
- 2) Click the "Basic Setup" link on the top menu bar.

Browser: Broadband Router x +
Address: 192.168.1.1

COMTREND

- Device Info
- Basic Setup
- Advanced Setup
- Diagnostics
- Management
- Logout

Summary
WAN
Statistics
Route
ARP
DHCP
NAT Session
IGMP Info
CPU & Memory
Network Map
Wireless
Topology

Device

Model	PRT-6301
Board ID	63177MR-1851AX2
Serial Number	2195954U...
Firmware Version	CQ11-502CTU-C03_R01b1-t7310
Bootloader (CFE) Version	1.0.38-163.243-1
Up Time	21 mins:51 secs
Date/Time	Tue May 11 23:32:04 2021

Wireless

2.4GHz Interface	
Driver Version	17.10.99.27
Primary SSID	Comtrend..._2.4GHz
Status	Enabled
Channel	1

- 3) Click on the "NAT" link on the left.

The screenshot shows the Comtrend Broadband Router web interface. The browser address bar displays "192.168.1.1". The main navigation bar includes "Device Info", "Basic Setup" (highlighted), "Advanced Setup", "Diagnostics", and "Management". The left sidebar lists "WAN Setup" (with "NAT" highlighted), "Wireless", "LAN", "WifiXtend2.0", "AutoXtend", "Parental Control", and "Home Networking". The main content area shows "LAN" status with two ports labeled "Down ETH1" and "Down ETH2". Below this is a table with the following data:

LAN IPv4 Address	192.168.1.1
LAN Subnet Mask	255.255.255.0
LAN MAC Address	aa:bb:cc:dd:ee:ff
DHCP Server	Enabled

4) Click on the "Add" button.

The screenshot shows the "NAT -- Virtual Servers Setup" page in the Comtrend Broadband Router web interface. The browser address bar displays "192.168.1.1". The main navigation bar includes "Device Info", "Basic Setup", "Advanced Setup", "Diagnostics", "Management", and "Logout". The left sidebar lists "WAN Setup" (with "NAT" highlighted), "Virtual Servers", "Port Triggering", "DMZ Host", "ALG/Pass-Through", "Wireless", "LAN", "WifiXtend2.0", "AutoXtend", "Parental Control", and "Home Networking". The main content area contains the following text:

NAT -- Virtual Servers Setup

Virtual Server allows you to direct incoming traffic from WAN side (identified by Protocol and External port) to the Internal server with private IP address used by the server on the LAN side. A maximum 32 entries can be configured.

Below the text are two buttons: "Add" (highlighted with a red box) and "Remove". Below the buttons is a table with the following headers:

Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
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5) Check if the setup you need is in the pre-configured list under "Select a Service".

COMTREND

Device Info Basic Setup Advanced Setup Diagnostics Management Logout

WAN Setup
NAT
 Virtual Servers
 Port Triggering
 DMZ Host
 ALG/Pass-Through
 Wireless
 LAN
 WifiXtend2.0
 AutoXtend
 Parental Control
 Home Networking

NAT -- Virtual Servers

Select the service name, and enter the server IP address and click "Apply/Save" to forward IP packets for this service to the specified server. **NOTE:** The "Internal Port End". However, if you modify "Internal Port Start", then "Internal Port End" will be set to the same value as "Internal Port Start". Remaining number of entries that can be configured:32

Use Interface: All Interface

Service Name:
 Select a Service: Select One
 Custom Service:

Server IP Address: 192.168.1.

Apply/Save

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
		TCP		
		TCP		

6) If not, create your own. As an example, here we are adding a Test service that will forward traffic going from the internet to the router on ports 2020-2025 to a device on the network with the IP address of 192.168.1.23 on port 22. Once you have added your desired port forwards, click "Apply/Save" at the bottom of the page.

COMTREND

Device Info Basic Setup Advanced Setup Diagnostics Management Logout

WAN Setup
NAT
 Virtual Servers
 Port Triggering
 DMZ Host
 ALG/Pass-Through
 Wireless
 LAN
 WifiXtend2.0
 AutoXtend
 Parental Control
 Home Networking

NAT -- Virtual Servers

Select the service name, and enter the server IP address and click "Apply/Save" to forward IP packets for this service to the specified server. **NOTE:** The "Internal Port End". However, if you modify "Internal Port Start", then "Internal Port End" will be set to the same value as "Internal Port Start". Remaining number of entries that can be configured:32

Use Interface: All Interface

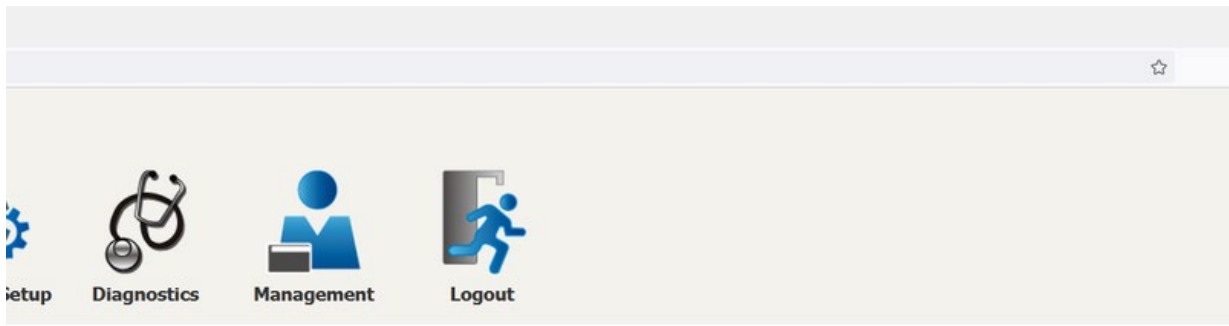
Service Name:
 Select a Service: Select One
 Custom Service: Test

Server IP Address: 192.168.1.23

Apply/Save

External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End
2020	2025	TCP	2020	2025
		TCP		
		TCP		
		TCP		
		TCP		

7) You are now done.



P
 ect incoming traffic from WAN side (identified by Protocol and External port) to the Internal server with private IP address on the LAN side. The Internal port is required only if the external port needs to be converted to side. A maximum 32 entries can be configured.

[Add](#) [Remove](#)

Server Name	External Port Start	External Port End	Protocol	Internal Port Start	Internal Port End	Server IP Address	WAN Interface	Remove
Test	2020	2025	TCP	2020	2025	192.168.1.23	All Interfaces	<input type="checkbox"/>

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Configuring WIFI/Wireless

You have your choice of one of two ways to enable the wireless access point in your SEI provided Comtrend PRT:

- A) Easy way by pressing a button and using preset defaults.
- B) Personalized approach (you can set your own SSID & security).

Easy setup:

1) On the back of your router, there is are two small round button labeled 2.4GHz WIFI ON/OFF & WPS and 5GHz WIFI ON/OFF & WPS. Press and hold the 2.4GHz button for approximately 20 seconds and release. Within a few seconds, the 2.4GHz WIFI LED will turn on. Repeat the same process for the 5GHz WIFI if needed.

2) On your WIFI capable devices, you will then connect to the SSID "ComtrendXXXX_2.4GHz" or "ComtrendXXXX_5GHz" where XXXX are the last 4 characters (in capital letters) of your modems MAC address. There is a sticker on the bottom of your modem with this MAC address.

3) Security is enabled by default using WPA2. The WPA2 encryption key/passphrase is located on the bottom of the router under WIFI Key. Please note that the WIFI Key is case sensitive.

Personalized setup:

- 1) From a web browser, go to "http://192.168.1.1". Login with the username "admin" and the password "seiadmin".
- 2) Click the Basic Setup link on the top menu bar.

COMTREND

Device Info Basic Setup Advanced Setup Diagnostics Management Logout

WAN Setup
NAT
Wireless
LAN
WifiXtend2.0
AutoXtend
Parental Control
Home Networking

LAN

Down ETH1 Down ETH2 Down ETH3 1000 FD ETH4

LAN IPv4 Address	192.168.1.1
LAN Subnet Mask	255.255.255.0
LAN MAC Address	a0:18:42:...
DHCP Server	Enabled

Wireless

2.4GHz Interface

Driver Version	17.10.99.27
Primary SSID	Comtrend_2.4GHz

WAN Interface
Link Type
Link Status

Connection Typ
PPP Username

3) Click on "Wireless" on the left side. Select 2.4GHz or 5GHz interface using the drop down box next to "Wireless Interface". To enable either radio, make sure that "BSS Enabled" is set to "Enabled". Please note that you must click the "Apply" button before changing the Wireless Interface or your changes will be lost. You may also change the SSID of the router by changing the name under "Network Name (SSID)" line. For best results, make sure that 2.4GHz and 5GHz SSIDs are not the same. Again, you must apply each change before changing the Wireless Interface.

COMTREND

Device Info Basic Setup Advanced Setup Diagnostics Management Logout

WAN Setup
NAT
Wireless
Security
LAN
WifiXtend2.0
AutoXtend
Parental Control
Home Networking

SSID
This page allows you to configure the Virtual interfaces for each Physical interface.

Wireless Interface: ComtrendBE38_2.4GHz(A0:18:42:09:BE:39) ▾

BSS-MAC (SSID): A0:18:42:09:BE:39 (ComtrendBE38_2.4GHz enabled) ▾

BSS Enabled: Enabled ▾

Network Name (SSID): ComtrendBE38_2.4GHz

Network Type: Open ▾

AP Isolation: Off ▾

BSS Max Associations Limit: 64

WMM Advertise: Advertise ▾

WMM: On ▾

Apply Cancel

4) Click on the "Security" link on the left. Select 2.4GHz or 5GHz interface using the drop down box next to "Wireless Interface". You can change your encryption passphrase/key here, or you can view the current one as well. If you change it, be sure to click the "Apply/Save" button before changing the "Wireless Interface". The default passphrase/key is on the sticker located on the bottom of the router labeled WIFI Key. Please note that this key is case sensitive.

The screenshot shows the Comtrend Broadband Router web interface. The browser address bar displays "192.168.1.1". The main navigation bar includes links for Device Info, Basic Setup, Advanced Setup, Diagnostics, Management, and Logout. A left sidebar menu lists various settings: WAN Setup, NAT, Wireless, SSID, Security (highlighted), LAN, WifiXtend2.0, AutoXtend, Parental Control, and Home Networking. The main content area is titled "SECURITY" and contains the following configuration options:

- Wireless Interface: ComtrendBE38_2.4GHz(A0:18:42:09:BE:39) [Select]
- 802.11 Authentication: Open [v]
- 802.1X Authentication: Disabled [v]
- WPA: Disabled [v]
- WPA-PSK: Disabled [v]
- WPA2: Disabled [v]
- WPA2-PSK: Enabled [v]
- WPA3-SAE: Disabled [v]
- WPA Encryption: AES [v]
- RADIUS Server: 0.0.0.0
- RADIUS Port: 1812
- RADIUS Key: [masked]
- WPA passphrase: [masked] [Click here to display](#)
- Protected Management Frames: Capable [v]

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Weak Security Concerns (wireless) For New Devices (Apple Products)

- 1) From a web browser, go to "http://192.168.1.1". Login with the username "admin" and the password "seiadmin".
- 2) Click the "Advance Setup" link on the top menu bar.

The screenshot shows the Comtrend Broadband Router web interface. The browser address bar displays "Broadband Router" and "192.168.1.1". The main navigation bar includes links for Device Info, Basic Setup, Advanced Setup, Diagnostics, Management, and Logout. The left sidebar contains a menu with items like Summary, WAN, Statistics, Route, ARP, DHCP, NAT Session, IGMP Info, CPU & Memory, Network Map, Wireless, and Topology. The main content area is titled "Device" and contains a table with the following information:

Model	PRT-6301
Board ID	63177MR-1851AX2
Serial Number	2195954UXXF-AN003252
Firmware Version	CQ11-5025E1-C05_R02
Bootloader (CFE) Version	1.0.38-163.243-1
Up Time	1 mins:2 secs
Date/Time	Mon Jul 18 18:23:43 2022

Below the table, there is a "Wireless" section with a "2.4GHz Interface" table:

Driver Version	17.10.157.2803
Primary SSID	ComtrendC568_2.4GHz

On the right side, there are status indicators for LAN ports: "Down ETH1" and "Down ETH2". Below these are fields for "LAN IPv4 Address", "LAN Subnet Mask", "LAN MAC Address", and "DHCP Server".

3) Click on the "Wireless" link on the left.

The screenshot shows the Comtrend Broadband Router web interface with the "Advanced Setup" section selected. The browser address bar remains "Broadband Router" and "192.168.1.1". The main navigation bar is the same as in the previous screenshot. The left sidebar menu is updated, with "Wireless" highlighted in blue. Under "Wireless", there are sub-links for "Security", "Quality of Service", "Routing", "DNS", "Interface Grouping", "IP Tunnel", "Certificate", "Multicast", "WifiXtend2.0", and "AutoXtend". The main content area is titled "Advanced Setup" and contains the text: "You can modify advanced settings for your device."

4) Click on the "Security" link on the left under "Wireless".

COMTREND

Device Info Basic Setup **Advanced Setup** Diagnostics Management Logout

Security
 Quality of Service
 Routing
 DNS
 Interface Grouping
 IP Tunnel
 Certificate
 Multicast
Wireless
 SSID
 Security
 WPS
 MAC Filtering

SECURITY
 This page allows you to configure security for the wireless LAN interfaces.

Wireless Interface: ComtrendC568_2.4GHz(A0:18:42:09:C5:69) Select

WPA: Disabled
 WPA-PSK: Disabled
 WPA2: Disabled
 WPA2-PSK: Enabled
 WPA3-SAE: Disabled
 WPA3: Disabled
 OWE: Disabled
 DPP: Disabled
 WPA2 Preauthentication: Disabled
 WPA3-SuiteB: Disabled

5) Select 2.4GHz band beside the "Wireless Interface".

From this step to step 7 repeat the same process for 5GHz band selection.

COMTREND

Device Info Basic Setup **Advanced Setup** Diagnostics Management Logout

Security
 Quality of Service
 Routing
 DNS
 Interface Grouping
 IP Tunnel
 Certificate
 Multicast
 Wireless
 SSID
 Security
 WPS
 MAC Filtering

SECURITY
 This page allows you to configure security for the wireless LAN interfaces.

Wireless Interface: ComtrendC568_2.4GHz(A0:18:42:09:C5:69) Select

WPA: Disabled
 WPA-PSK: Disabled
 WPA2: Disabled
 WPA2-PSK: Enabled
 WPA3-SAE: Disabled
 WPA3: Disabled
 OWE: Disabled
 DPP: Disabled
 WPA2 Preauthentication: Disabled
 WPA3-SuiteB: Disabled

6) Then change the "WPA3-SAE" section from Disabled to **Enabled**.

The screenshot shows the Comtrend Broadband Router configuration interface. The browser address bar displays '192.168.1.1'. The main navigation menu includes 'Device Info', 'Basic Setup', 'Advanced Setup', 'Diagnostics', 'Management', and 'Logout'. The left sidebar lists various configuration categories, with 'Security' highlighted. The main content area is titled 'SECURITY' and contains the following settings:

- Wireless Interface: ComtrendC568_2.4GHz(A0:18:42:09:C5:69) [Select]
- WPA: Disabled
- WPA-PSK: Disabled
- WPA2: Disabled
- WPA2-PSK: Enabled
- WPA3-SAE: Enabled
- WPA3: Enabled
- OWE: Disabled
- DPP: Disabled
- WPA2 Preauthentication: Disabled
- WPA3-SuiteB: Disabled
- WPA Encryption: AES

7) Finally click on apply at the bottom, and you are done!

This screenshot shows the same configuration page as above, but with additional settings visible. The 'Apply' button at the bottom is highlighted in yellow. The settings are as follows:

- Wireless Interface: ComtrendC568_2.4GHz(A0:18:42:09:C5:69) [Select]
- WPA: Disabled
- WPA-PSK: Disabled
- WPA2: Disabled
- WPA2-PSK: Enabled
- WPA3-SAE: Enabled
- WPA3: Disabled
- OWE: Disabled
- DPP: Disabled
- WPA2 Preauthentication: Disabled
- WPA3-SuiteB: Disabled
- WPA Encryption: AES
- RADIUS Server: 0.0.0.0
- RADIUS Port: 1812
- RADIUS Key: [Masked]
- WPA passphrase: [Masked] [Click here to display](#)
- Protected Management Frames: Capable
- Network Key Rotation Interval: 0
- Pairwise Key Rotation Interval: 0
- Network Re-auth Interval: 36000

Buttons: Apply (highlighted), Cancel

COMTREN

Device Info Basic Setup **Advanced Setup** Diagnostics Management Logout

Security
Quality of Service
Routing
DNS
Interface Grouping
IP Tunnel
Certificate
Multicast
Wireless
SSID
Security
WPS
MAC Filtering

APPLY
This screen notifies you of any errors that were detected while changing the router's settings.
Validating values...done
Committing values...done

It is worth mentioning that devices won't see the change until:

- A) Disconnecting and reconnecting the device to the Comtrend PRT.
- B) Simply turning the WiFi off and on will do the trick (on your device).

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800-925-6746 | 812-574-8800 | 812-667-8800
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Cellular Technical Support

Monday through Friday ~ 8:00am to 4:30pm
888-200-8077