



# **Firebox<sup>®</sup> T35-R**

## **Hardware Guide**

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Firebox<sup>®</sup> T35-R

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## About This Guide

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## About WatchGuard

WatchGuard® Technologies, Inc. is a global leader in network security, providing best-in-class Unified Threat Management, Next Generation Firewall, secure Wi-Fi, and network intelligence products and services to more than 75,000 customers worldwide. The company's mission is to make enterprise-grade security accessible to companies of all types and sizes through simplicity, making WatchGuard an ideal solution for Distributed Enterprises and SMBs. WatchGuard is headquartered in Seattle, Washington, with offices throughout North America, Europe, Asia Pacific, and Latin America. To learn more, visit WatchGuard.com.

For additional information, promotions and updates, follow WatchGuard on Twitter, @WatchGuard on Facebook, or on the LinkedIn Company page. Also, visit our InfoSec blog, Secplicity, for real-time information about the latest threats and how to cope with them at [www.secplicity.org](http://www.secplicity.org).

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# WatchGuard Firebox T35-R Hardware Guide

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WatchGuard® Firebox security appliances deliver unparalleled unified threat management, superior performance, ease of use, and value for your small organization or branch office. Our security subscriptions give you fully integrated protection from spyware, spam, viruses, worms, trojans, web-based exploits, and blended threats. From firewall and VPN protection to secure remote access, WatchGuard Firebox appliances support a broad range of network environments.

This guide introduces the Firebox T35-R RoHS-compliant (lead-free) hardware product. Firebox T35-R is a rugged version of the Firebox T35, suitable for installation in harsh environments outside a typical small office or rack room.

## Fireware OS

The Firebox T35-R supports WatchGuard's next generation UTM OS—Fireware® OS. Each Firebox appliance includes Fireware OS and delivers exceptional protection against today's sophisticated threats to make sure that your business stays connected. For more information on the features of Fireware OS, see [Fireware Help](#).

## About Your Hardware

### Hardware Specifications

Processor	NXP T1024
Memory	4 GB
Storage	16 GB mSATA
Dimensions	D = 164 mm (6.46") W = 240 mm (9.45") H = 43 mm (1.7")
Weight	1.74 kg (3.84 lbs)

### Interface Specifications

Network Interfaces	5 1000Base-TX, RJ45
I/O Interfaces	2 USB 2.0 1 RJ45 Serial Port

## Power Requirements



The Direct DC Terminal Adapter is shipped with the Firebox. If you prefer to use an AC adapter, you must order it separately from your WatchGuard reseller. You can find a reseller on the [WatchGuard Find Resellers](#) page.

The Direct DC Terminal Adapter connects your T35-R directly to your power supply. The DC power requirements are:

- **Input:** 12 - 48VDC +/-5% at 50/60Hz
- **Maximum Power Consumption:** 24W DC, for example:
  - 12VDC at 2A
  - 48VDC at 0.5A

## Environmental Requirements

To safely install your Firebox, we recommend that you:

- Turn off electrical power to the circuit until the adapter and earth ground are connected, and you are ready to turn on the Firebox.
- Put it in a secure area, such as a locked room, to block the device from people who do not have permission to use it.
- Connect it to a conditioned power supply to prevent damage from sudden power changes.

Other environmental requirements:

- Operating temperature: -40° to 60°C (-40° to 140°F)
- Operating humidity: 5% to 90% non-condensing
- Non-operating temperature: -40° to 70°C (-40° to 158°F)
- Non-operating humidity: 5% to 90% non-condensing

## Hardware Description

### Front

Front view of the Firebox:



### Network Interface Status Indicators

The Firebox T35-R has five network interfaces. These interfaces are labeled 0/WAN, 1/LAN, 2, 3, 4. There are two status indicators for each interface.

Indicator	Indicator Color	Interface Status
1000	Yellow	Link speed: 1000 Mbps
	Blinks (speed of blink increases as the data flow increases)	Data sent and received
10/100	Green	Link speed: 10 Mbps or 100 Mbps
	Blinks (speed of blink increases as the data flow increases)	Data sent and received

### Power (⏻)

The Power indicator is lit to indicate power status. It is green when the Firebox is powered on.

### Attn

The Attn indicator is yellow when you start the device with the Reset button pressed. For more information, see [Restore Factory Default Settings](#).

### Mode

The Mode indicator shows the status of the external network connection. If the device can connect to the external network and send traffic, the indicator is green. The indicator flashes if the device cannot send traffic to the external network.

### Status

The Status indicator is lit when there is a management connection to the device. The Status indicator is lit for 30 seconds after you connect to the device with the Fireware Web UI or the command line interface. It is also lit when the device is polled by WatchGuard System Manager.

### Failover

The failover indicator is lit when there is a WAN failover from the primary external interface to the backup interface. After the external interface connection fails back to the primary external interface, the indicator is not lit.

### USB Interface

The device includes two USB interfaces, one in the front and one in the rear. Connect a USB storage device for USB backup and restore, or to store a support snapshot. For more information, see [Fireware Help](#).

## Rear

Rear view of the Firebox:



### Serial Port (Console)

The leftmost port is an RJ45 serial console port. An RJ45 serial cable is not included with the device.

### USB Interface

The device includes two USB interfaces, one in the front and one in the rear. Connect a USB storage device for USB backup and restore, or to store a support snapshot. For more information, see [Fireware Help](#).

### Reset Button

This resets the device. To restore the device to factory default settings, see [Restore Factory Default Settings](#).


### Power Switch

Controls the power supplied to the device. Move the switch to position **I** to power on the device, or position **0** to power it off.

### Power Input

A Direct DC Terminal Adapter is included with your Firebox. It connects the Firebox directly to your power supply. If you prefer to use an AC adapter, you must order it separately. See the installation instructions in [Direct DC Terminal Adapter](#).

### Ground Terminal

The ground terminal, indicated by , is where you connect your electrical ground to protect your Firebox from electrical surges. To meet safety and electromagnetic interference (EMI) requirements, you must connect the Firebox to an earth ground before you connect power.

## Direct DC Terminal Adapter

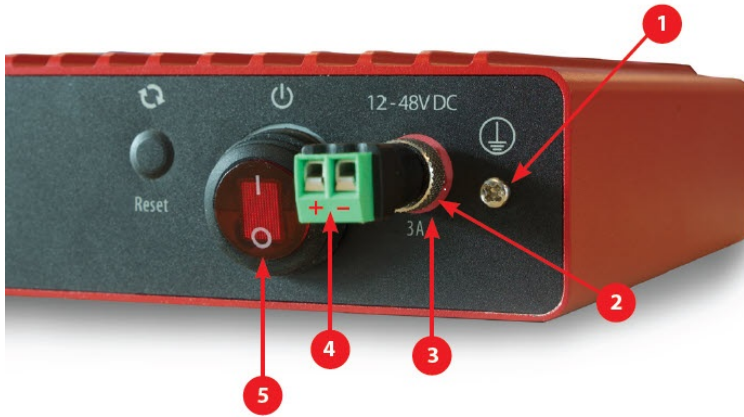
The Direct DC Terminal Adapter connects the Firebox directly to your power supply. To meet safety and electromagnetic interference (EMI) requirements, you must connect the Firebox to an earth ground before you connect power.



A retention mechanism prevents accidental disconnection of the power cord. To avoid damage to the power cord, before you remove the power adapter, disengage the retention mechanism. Always pull from the connector and not the cord.



Turn off electrical power until the adapter and earth ground are connected, and you are ready to turn on the Firebox.



To attach the Direct DC Terminal Adapter to the Firebox:

1. Connect a 3.2 mm stranded copper ground wire to the ground terminal on the Firebox. Connect the other end of the ground wire to the earth ground.
2. Insert the adapter into the DC port of the Firebox.
3. Tighten the retention screw.
4. Connect the positive wire to the side of the adapter indicated by a + symbol, then connect the negative wire to the side of the adapter indicated by a – symbol.
5. Turn on the Firebox.

## Connect Firebox Cables

Connect the Ethernet cables to complete the setup with WatchGuard System Manager or the Fireware Web UI:

1. Use an Ethernet cable to connect interface 1 of the Firebox to your computer.
2. Use an Ethernet cable to connect interface 0 to a router or network that provides Internet access.

See [Set Up Your Firebox](#) for further instructions on how to complete your Firebox deployment.

## DIN Rail Mounting Plate

The DIN rail mounting plate enables you to mount the Firebox on a wall in a good location to increase the wireless range. You can attach the mounting plate to the sides or bottom of the Firebox.

To install the mounting plate:

1. Securely screw the mounting plate to the Firebox with the included screws.
2. Clip the mounting plate onto the DIN rail.



## Restore Factory Default Settings

If you have a problem in your configuration file that you cannot correct, you can restore the factory default settings and start from a new configuration file. For example, if you do not know the administrator account passphrase, or if a power interruption causes damage to the Fireware OS, you can restore the Firebox to the factory default settings and build your configuration again.

To reset the Firebox to factory default settings:

1. Power off the Firebox.
2. Press and hold the **Reset** button on the back of the Firebox.
3. Power on the Firebox while you continue to hold the **Reset** button.
4. Continue to hold the **Reset** button until the **Attn** indicator on the front of the Firebox begins to flash.
5. Release the **Reset** button.
6. Wait until the **Attn** indicator stays lit and does not flash. This can take 75 seconds or more.



You must start the device again before you can connect to it. If you do not, when you try to connect to the device, a web page appears with the message, "Your device is running from a backup copy of firmware." This message also appears if the **Reset** button is stuck in the depressed position. If you continue to see this message, check the **Reset** button and start the device again.

7. Power off the Firebox.
8. Power on the Firebox.

*The Firebox restarts with factory-default settings.*