

SonicWall® NS_a 4650/5650/6650

Quick Start Guide

Regulatory Model Numbers:
1RK39-0C9 NS_a 4650
1RK39-0CA NS_a 5650
1RK39-0CB NS_a 6650



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Legend

- WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death.
- CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
- IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

To access the Support Portal, go to <https://www.sonicwall.com/support>.

SonicWall NS_a 4650/5650/6650 Quick Start Guide
Updated - May 2018
232-004309-50 Rev A



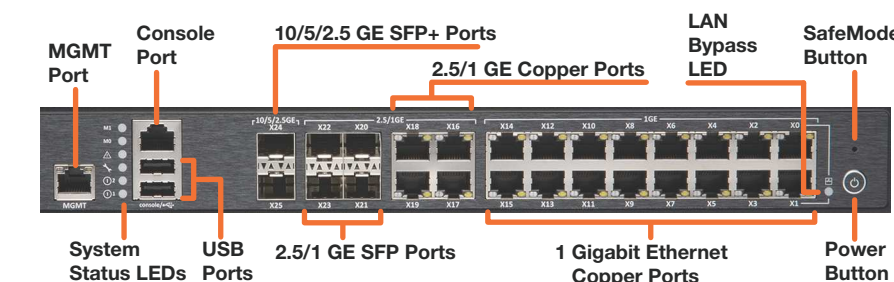
1 About this Guide

This *SonicWall® NS_a 4650/5650/6650 Quick Start Guide* provides instructions for basic installation and configuration of SonicWall NS_a 4650/5650/6650 appliances.

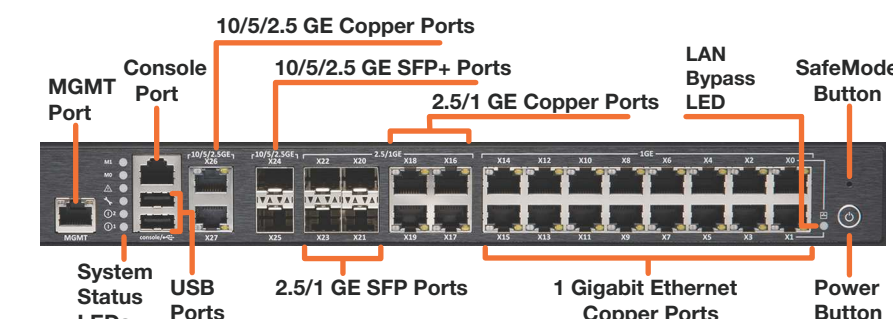
- Topics:
- NS_a 4650/5650/6650 Hardware Overview
 - Checking Package Contents
 - Determining the WAN Type
 - System Requirements
 - SonicWall NS_a LED Activity
 - Connecting and Powering On
 - Using the Setup Wizard
 - Connecting the LAN and WAN Interfaces
 - Testing and Troubleshooting Connectivity
 - Registering the Appliance
 - Upgrading to the Latest Firmware
 - Licensing Services
 - Rack Mounting the Appliance
 - Safety and Regulatory Information

2 NS_a 4650/5650/6650 Hardware Overview

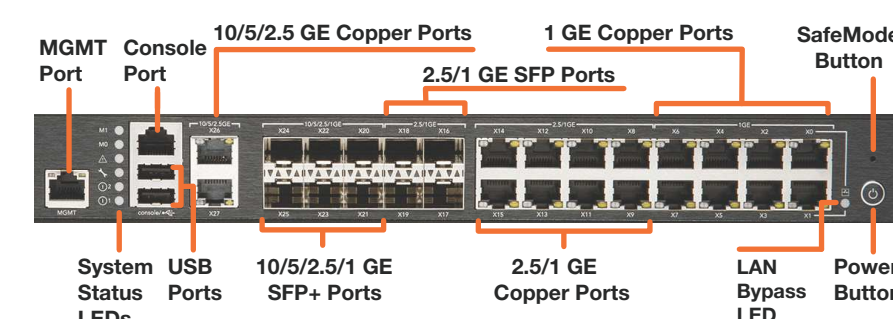
NS_a 4650 Front Panel



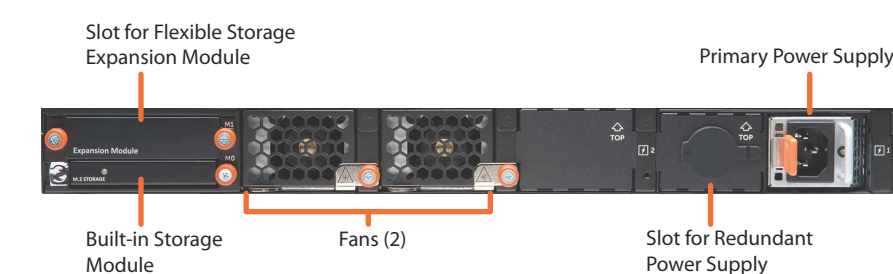
NS_a 5650 Front Panel



NS_a 6650 Front Panel



NS_a 4650/5650/6650 Back Panel



Test/Wrench LED

LED Color	Description
Off	System booted and is operational.
Solid Yellow	System booting is in progress.
Slow blinking yellow	System is in SafeMode.
Rapid blinking yellow	System is shutting down. CAUTION: Do not remove power during the shutdown process. You risk damaging your appliance.

Alarm LED

LED Color	Description
Off	No alarms present.
Blinking or solid yellow	Minor system alarm.
Blinking or solid red	Major or critical system alarm (thermal, fan, etc).

Module 0 / Module 1 LEDs

LED Color	Description
Off	Module is not detected in respective slot.
Solid green	Module is present in the slot and operational.
Solid yellow	Module warning.

MGMT Port LEDs

LED Color	Description
Off	No link.
Solid green	Linked at 1 Gbps, 100 Mbps, or 10 Mbps.
Blinking yellow	Traffic is active.

LAN Bypass LED

LED Color	Description
Off	LAN Bypass is disabled, ports are isolated from each other.
Solid green	LAN Bypass is armed, but not active. Ports are isolated until event such as power failure/reboot, which will activate bypass.
Solid yellow	LAN Bypass is active, ports are connected together. LED will appear Off if power has failed, but bypass is still active.

1 Gigabit Ethernet Copper Ports LEDs

LED Color	Description
Off	No link.
Solid green	Linked at 1 Gbps, 100 Mbps, or 10 Mbps.
Blinking yellow	Traffic is active.

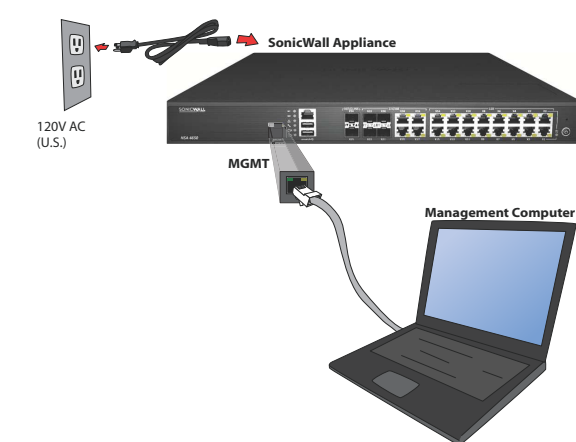
2.5 / 1 GE Copper Ports and SFP Ports LEDs

LED Color	Description
Off	No link.
Solid green	Linked at 1 Gbps or 100 Mbps.
Solid amber	Linked at 2.5 Gbps.
Blinking yellow	Traffic is active.

10 / 5 / 2.5 GE Copper Ports and SFP+ Ports LEDs

LED Color	Description
Off	No link.
Solid green	Linked at 1 Gbps or 100 Mbps.
Solid amber	Linked at 10 Gbps, 5 Gbps, or 2.5 Gbps.
Blinking yellow	Traffic is active.

7 Connecting and Powering On



3 Checking Package Contents

Before you begin the setup process, verify that your package contains the following items:

- One NS_a 4650/5650/6650 appliance
- One power cord
- One Ethernet cable
- One serial console cable
- One torx wrench
- One rack mount kit
- One *SonicWall NS_a 4650/5650/6650 Quick Start Guide*
- One *Safety, Environmental, and Regulatory Information* document

NOTE: The included power cord is approved for use only in specific countries or regions. Before using a power cord, verify that it is rated and approved for use in your location.

Package Contents



To connect your management computer to the NS_a appliance for initial setup:

- Using the provided Ethernet cable, connect one end to your management computer and the other to the MGMT port on the appliance. The MGMT port is a dedicated 1 Gigabit Ethernet interface for appliance management and SafeMode access.
- Connect the power cord to the appliance and to an appropriate electrical outlet (100-240 volts).

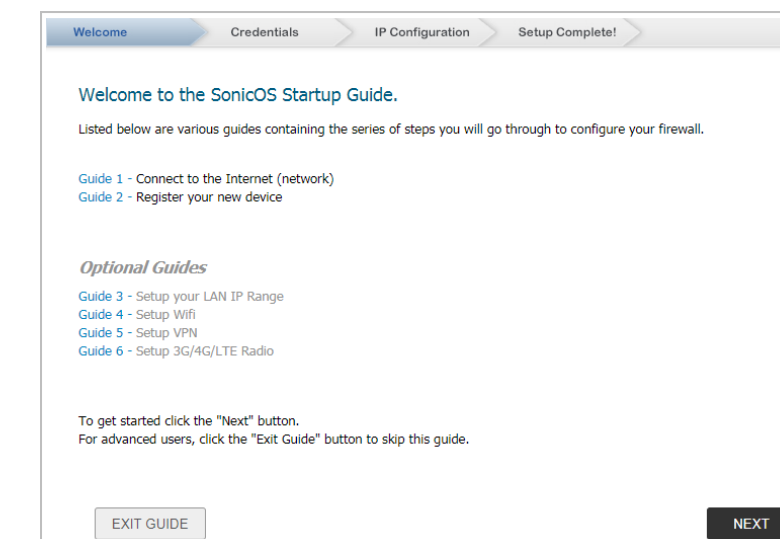
TIP: Optionally connect the appliance WAN interface (X1) to your Internet connection at this point. Since the WAN type is DHCP by default, this will prevent an error message during IP configuration in the setup wizard. See [Connecting the LAN and WAN Interfaces](#).

8 Using the Setup Wizard

The SonicOS setup wizard helps you quickly configure the SonicWall appliance to secure your Internet connection.

To use the setup wizard:

- Configure the Local Area Connection IPv4 properties on your management computer with a static IP address on the 192.168.1.0/24 subnet, such as 192.168.1.20, and set the subnet mask to 255.255.255.0. This allows your computer to connect to SonicOS via the MGMT interface.
- In a web browser on your computer, navigate to the default MGMT IP address: <http://192.168.1.254>
- In the initial screen, launch the SonicOS setup wizard by clicking the first link, **To launch the SonicWall Setup Guide, click here.**
- The SonicOS Startup Guide opens. Click **NEXT**.



4 Determining the WAN Type

Before configuring your SonicWall NS_a appliance, you need to determine the type of WAN connection that your setup uses. SonicWall supports the following types:

- Static**—Configures the appliance for a network that uses static IP addresses.
- DHCP**—Configures the appliance to request IP settings from a DHCP server on the Internet.
- PPPoE**—Point-to-Point Protocol over Ethernet (PPPoE) is typically used with a DSL modem. If your ISP requires desktop software with a username and password, select NAT with PPPoE mode.
- PPTP**—Point-to-Point Tunneling Protocol (PPTP) is used to connect to a remote server. PPTP typically supports older Microsoft Windows implementations that require tunneling connectivity.
- L2TP**—Layer 2 Tunneling Protocol (L2TP) is used to transmit Layer 2 data over IP or other Layer 3 routed networks. Internet Service Providers (ISPs) often use it to enable virtual private networks (VPNs) for customers over the Internet. It does not encrypt network traffic itself. **If L2TP is not available in the Setup Wizard, you can configure it later in the SonicOS management interface.**
- Wire Mode (2-Port Wire)**—Inserts the appliance into the network using two paired interfaces. Available Wire Mode types include Bypass, Inspect, and Secure. Bypass mode allows for quick and non-disruptive insertion into the data path. Inspect mode extends Bypass mode with traffic inspection for classification and flow reporting. Secure mode provides full SonicWall ReAssembly-Free Deep Packet Inspection™ (RF-DPI) and control of network traffic. Secure Mode also affords the same level of visibility and enforcement as conventional NAT or L2 Bridged Mode deployments, but without any L3/L4 transformations, and with no alterations of ARP or routing behavior. **If Wire Mode is not available in the Setup Wizard, you can configure it later in the SonicOS management interface.**

NOTE: When operating in Wire Mode, the firewall's MGMT interface is used for local management. To enable remote management and dynamic security services and application intelligence updates, a WAN interface (separate from the Wire Mode interfaces) must be configured for Internet connectivity.

- Tap Mode (1-Port Tap)**—Using a single interface, the firewall connects to and receives mirrored packets from an adjacent switch SPAN port. Similar to Inspect mode in Wire Mode, but with a single port and not in the physical path of traffic. **If Tap Mode is not available in the Setup Wizard, you can configure it later in the SonicOS management interface.**

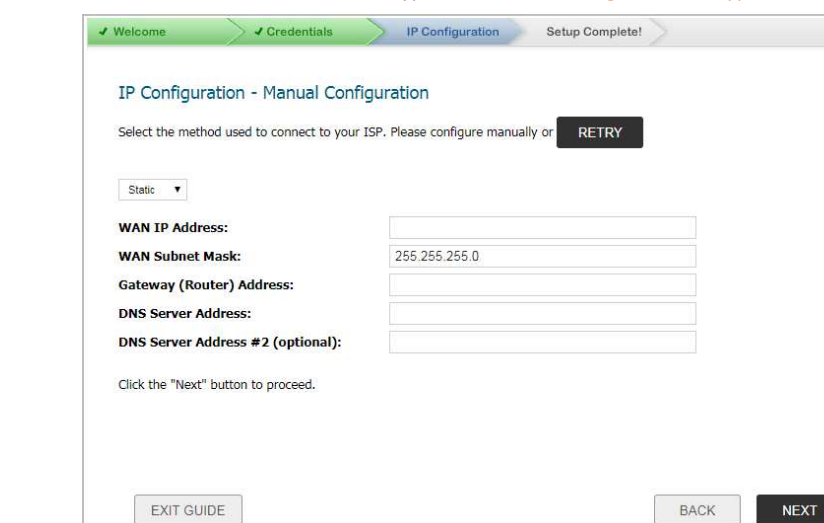
For more information about WAN types including Wire Mode, Tap Mode, L2TP, and others, refer to the *SonicOS 6.5 Administration* documentation or online help.

- In the **Credentials** screen, optionally configure the admin password and settings, and then click **NEXT**.

NOTE: The default administrator credentials are:

Username: *admin*
Password: *password*

- In the **IP Configuration** screen, the wizard defaults to DHCP for the WAN type and requests IP settings from the DHCP server on the network. Do one of the following:
 - Click **NEXT** to accept these settings.
 - Click **Manual Config** to configure a different WAN type and then click **NEXT**. For example, change the WAN type to **Static** using the drop-down list and manually enter a static IP address and other settings. For information about WAN types, see [Determining the WAN Type](#).



- In the **Manual Configuration** screen, click **RETRY** if you want to revert to DHCP.
- In the **Setup Complete** screen:
 - Review the settings.
 - Optionally select **Automatic secure crash analysis reporting**.
 - Optionally select **Periodic secure diagnostic reporting for support purposes**.
- If the settings are correct, click **DONE** to apply the configuration. The Setup Guide exits and the appliance displays the login page.
- Optionally log in with the username and password that you set up in **Step 5** (the default credentials are *admin / password*).

5 System Requirements

Before beginning the setup process, verify that you have:

- An Internet connection
- A web browser supporting Java Script and HTTP uploads

The following browsers are supported for SonicOS management:

- Chrome, version 45 and higher
- Firefox, version 38 and higher
- Internet Explorer, version 10 and higher
- Edge, all versions
- Opera, version 32 and higher
- Safari (running on non-Windows machines), version 10 and higher

NOTE: Mobile device browsers are not recommended for SonicWall appliance system administration.

6 SonicWall NS_a LED Activity

The system LEDs provide essential status information about the appliance.

Power 1 and Power 2 LEDs

LED Color	Description
Off	Respective power supply is not detected in the chassis. If both power supply LEDs are off, the system is not powered on. NOTE: When the optional power supply is not installed, it might take 1 to 2 minutes until the system detects the absence of the optional power supply. The LED may appear yellow at first, but will turn off once booting is finished.
Blue	Respective power supply is on and operating properly.
Yellow	Respective power supply is defective, not connected to an AC source, or switched off. NOTE: There may be a 10-20 second delay from the moment when a power LED becomes yellow. This is normal and associated with voltage decay.

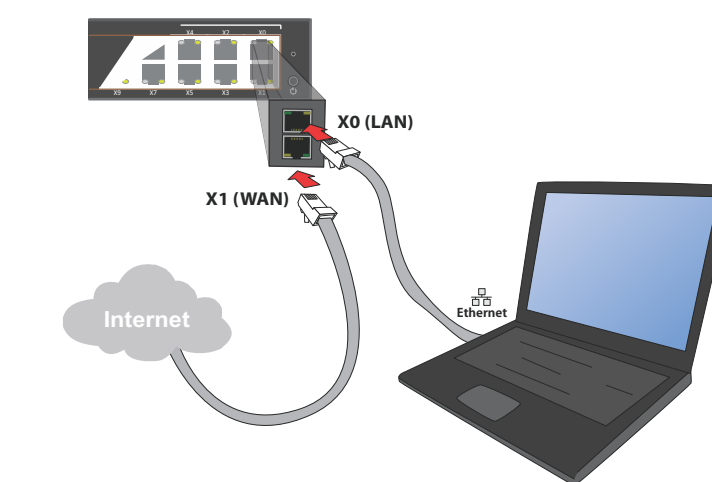
The Power 1 LED is the bottom LED next to the MGMT port. It is for the primary power supply. The Power 2 LED for the redundant power supply is above the Power 1 LED.

9 Connecting the LAN and WAN Interfaces

After initial setup is complete, physically connect the LAN and WAN interfaces to the appropriate network devices in your environment to provide access to your networks or the Internet.

NOTE: Internet connectivity is needed for the recommended product registration process. For initial Internet access, connect your computer to the NS_a X0 interface or to the LAN subnet. You cannot reach the Internet or other external destinations while connected to the MGMT interface without first configuring a default gateway in its interface settings.

LAN and WAN Connections



To connect the interfaces:

- Using a standard Ethernet cable, connect the appliance LAN interface (X0) to your local network switch or device, or to your computer.
- Using another Ethernet cable, connect the appliance WAN interface (X1) to your Internet connection. If you have a router, DSL modem, or cable modem, connect the Ethernet cable to a LAN port on the router or modem.

NOTE: If X1 is configured in Wire Mode, you can configure a different interface with one of the other WAN types for use in this step.

10 Testing and Troubleshooting Connectivity

To test your Internet connection:

- Reset your computer to use DHCP IP addressing and connect it to your LAN subnet or to the appliance X0 interface.
- Point your browser to the X0 IP address configured during initial setup (default: 192.168.168.168).
- Log into SonicOS using the configured credentials (default: admin/password).
- In a command prompt window, type: ping sonicwall.com. You should receive a reply.
- Open another browser tab or window and point it to <https://www.sonicwall.com> or another valid web site. If the site displays, you have correctly configured your appliance.

To troubleshoot your Internet connection:

- Verify that the Local Area Connection settings on your management computer are set to use either DHCP or a static IP on the LAN subnet. Restart it or renew the DHCP address.
- Verify that the WAN interface being used for Internet connectivity is not configured in Wire Mode or Tap Mode.
- Restart your Internet router or modem to communicate with the DHCP client in SonicOS on the appliance.
- Check all cable connections and IP addresses.

To troubleshoot your MGMT connection, consider the following:

- Did you correctly enter the SonicWall NSa management IP address beginning with "http://" or "https://" in your web browser?
 - Did you try restarting your management station while it is connected to the appliance?
 - Are the Local Area Connection settings on your computer set to a static IP address on the 192.168.1.0/24 subnet?
 - Is the Ethernet cable connected to your computer and to the MGMT port on your appliance, and are the connector clips properly seated in the ports?
- To troubleshoot your LAN connection, consider the following:**
- Did you correctly enter the IP address for the SonicWall NSa X0 interface into your web browser, beginning with "http://" or "https://"?
 - Did you try restarting your management station while it is connected to the appliance?
 - Are the Local Area Connection settings on your computer set to one of the following:
 - Obtain an IP address automatically using DHCP
 - A static IP address on the default LAN subnet (192.168.168.0/24)
 - A static IP address on the configured LAN subnet, if you changed it during initial setup
 - Is the Ethernet cable connected to your computer and to the X0 (LAN) port on your appliance, and are the connector clips properly seated in the ports?

11 Registering the Appliance

Registration is an important part of the setup process and is necessary in order to receive the benefits of SonicWall security services, firmware updates, and technical support

To register the appliance from SonicOS:


- Point your browser to the appliance LAN IP address (default <https://192.168.168.168>) and log in using the administrator credentials.
- Click the **Register** link in the top, right corner of the SonicOS management interface.
- TIP:** Registering the appliance from SonicOS requires that DNS settings are configured for the WAN interface.
- Enter your MySonicWall account name and password. If you do not have a MySonicWall account, click the **Create MySonicWall account** link to create an account. MySonicWall gets the necessary information directly from the appliance.
- If asked, you can specify a **Friendly Name** or **Product Group** for the appliance.
- Click **CONTINUE** in the registration completed notification.

- NOTE:** Your appliance must be registered to download the latest firmware.

12 Upgrading to the Latest Firmware

SonicWall recommends that you run the latest available firmware on your appliance by upgrading the factory-installed firmware to the latest version available on MySonicWall.

To obtain the latest firmware and upgrade your appliance:

- On your management computer, point your browser to <http://www.mysonicwall.com>.
- Click **DOWNLOADS** and click on **NSa x650 Firmware** in the displayed list, where **NSa x650** is either *4650*, *5650* or *6650* depending on your appliance model.
- Mouse over the displayed firmware and click the Download icon  to save the file to a location on your computer.
- Log into the appliance as an administrator and navigate to the **MANAGE | Firmware & Backups** page.
- Click the **Upload Firmware** option, and then click the **Browse** button to select the firmware you just downloaded.
- Click **Upload** and wait for the upload to complete.
- In the **Firmware & Backups** page, click the **Boot** icon for the new firmware, using **Current Configuration**.
- NOTE:** Selecting **Factory Defaults** for the **Boot** option will delete any custom configurations.
- Click **OK** to confirm. The appliance restarts and then displays the login page.

- Enter your user name and password. The new SonicOS image version information is displayed on the **MONITOR | Current Status | System Status** page.
- NOTE:** If you are unable to connect to the SonicOS management interface, you can restart the security appliance in **SafeMode**. The SafeMode feature allows you to recover quickly from uncertain configuration states with a simplified management interface. See the *SonicOS 6.5 Upgrade Guide* for information about using SafeMode.

13 Licensing Services

SonicWall security services, cloud services, and client software products are licensed from SonicOS and synchronized with MySonicWall and the licensing server. These services are a vital part of the SonicWall security solution, preventing malware of all kinds from infecting your network. Your appliance must be registered before you can activate service licenses.

- To license services:**
- Log into the appliance as an administrator.
 - Navigate to the **MANAGE | Updates | Licenses** page.
 - Under **Security Services Summary**, click the **Manage Services Online** link.
 - Enter your credentials to log into MySonicWall. The **Manage Services Online** table is displayed.
 - In the **Manage Service** column:
 - Click **Try** to activate any available free trials.
 - Click **Enable** to activate any free services, then click **CONTINUE**.
 - Click **Activate** to enter the activation key for purchased services, then click **SUBMIT**.
 - Click **Enter Info** and select the nearest data center, then click **SUBMIT** to activate **Capture Advanced Threat Protection**.

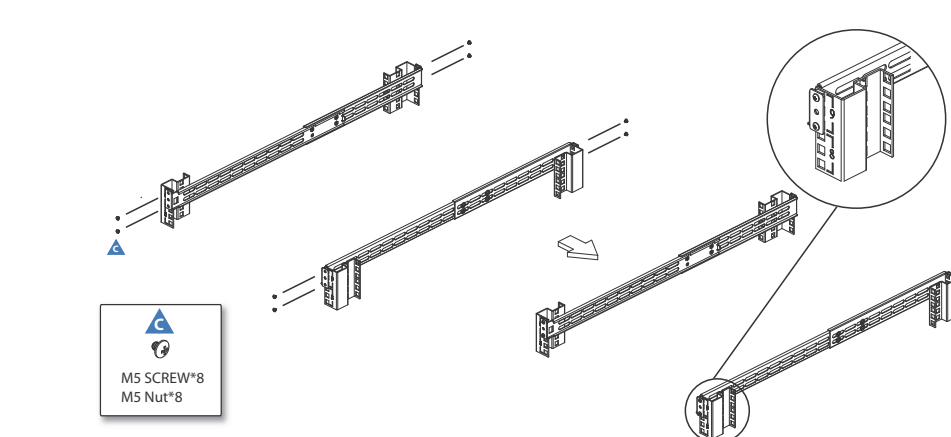
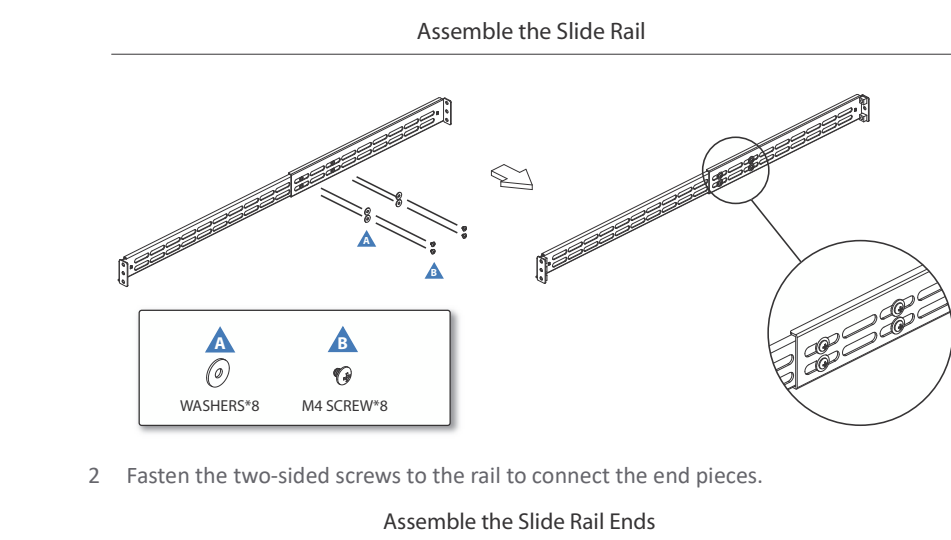
- NOTE:** If the display does not return to the **Manage Services Online** table, click the **Provide your MySonicWall login and make all changes from here** link under **Manage Security Services Online** to display it again.
- To purchase additional services, click the **Go to MySonicWall.com, then come back and synchronize your changes** option under **Manage Security Services Online** to log into MySonicWall directly from your browser.
- Scroll down to the **Applicable Services** section to select additional service licenses.
- Click the **Cart** icon to purchase a security service.
- In the **Buy Service** page, specify the desired quantity of licenses, then click **Add to Cart**.
- Once the item(s) have been added, click the **Checkout** button. Follow the instructions to complete your purchase.
- When you return to the SonicOS management interface, click **SYNCHRONIZE** on the **MANAGE | Updates | Licenses** page.

14 Rack Mounting the Appliance

The following illustrations provide rack mounting instructions for 4650/5650/6650 appliances. For safety information related to rack mounting and other aspects of product installation, see [Safety and Regulatory Information](#).

To mount the appliance in a standard 19-inch rack:

- Fasten the four provided screws to the rail to connect inner and outer rail sections.



- Scroll down to the **Applicable Services** section to select additional service licenses.
 - Click the **Cart** icon to purchase a security service.
 - In the **Buy Service** page, specify the desired quantity of licenses, then click **Add to Cart**.
 - Once the item(s) have been added, click the **Checkout** button. Follow the instructions to complete your purchase.
 - When you return to the SonicOS management interface, click **SYNCHRONIZE** on the **MANAGE | Updates | Licenses** page.
- 必須維護可靠的機架裝載設備接地。必須特別留意電源供應器連線，而不是直接連接到電源板之類的分支電路
 - 隨附的電源線僅限於特定的國家或地區使用。使用前，請確認電源線的額定值且已被認可在你的地區上使用。
 - 本產品的設計目的不是安裝並使用於住家或一般大眾可接觸到的公共區域。
 - 如果是安裝在學校，本設備只能安裝在受訓人員能接觸到的安全位置。
 - 從工廠出貨時，此 SonicWall 產品已安裝單個電源供應器。可以訂購和安裝第二個電源供應器做為備用 AC 電源並增加可靠性。安裝第二個電源供應器時兩條電源線必須拔除以中斷 AC 電源與裝置的連接。
 - 切勿在要拆除或安裝的電源供應器連接著 AC 或 DC 電源線情況下，進行拆除或安裝作業。
 - 安裝或拆除電源供應器時，一律從電源供應器拔除電源線。切勿在 AC 電源線連接的狀態下安裝或拆除電源供應器。
 - 當安裝及後續接觸產品背面之後，必須用工具將指旋螺釘鎖緊。
 - 當使用光纖小封裝熱插拔 (Small-Form Pluggable, SFP) 模組時，請確認該模組通過 IEC 60825 認證。

鋰電池警告

使用者不得自行更換 SonicWall 網際網路安全性裝置中使用的鋰電池。必須將 SonicWall 裝置送回 SonicWall 授權的服務中心，以更換相同的鋰電池或製造商推薦的同類型鋰電池。若因任何原因必須丟棄電池或 SonicWall 網際網路安全性裝置，請嚴格遵守電池製造商的指示。

纜線連結

所有乙太網路與 RS232（主控台）線路都是為與其他裝置進行內建連接所設計的。請不要將這些連接埠直接連接到通訊線路，或其他連出 SonicWall 裝置所在建築的線路。

台灣 RoHS

限用物質含有情況標示資訊請參考下列網址：<https://www.sonicwall.com/support>.

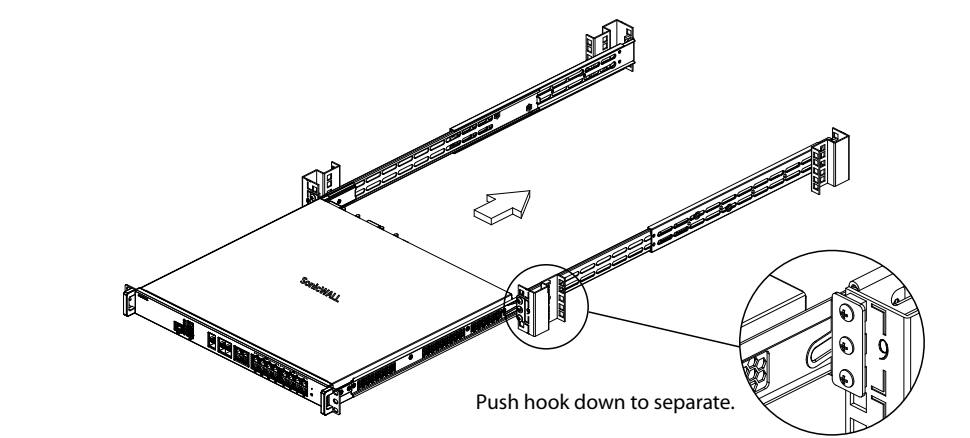
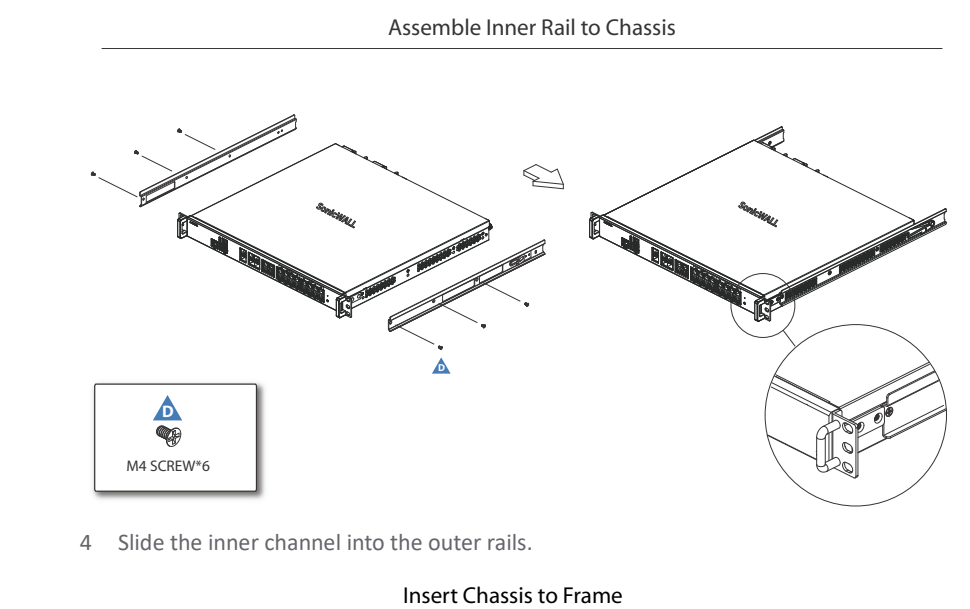
操作說明：

輸入產品型號並搜尋

選擇 Technical Documentation

選擇 Safety and Regulatory Reference Guide

Download this document 下載此文件



Exigences Relatives à l'installation

AVERTISSEMENT: Les conditions suivantes sont requises pour une installation correcte.

- L'appareil SonicWall est conçu pour être monté dans une baie standard de 19 pouces.
- Utilisez le matériel de montage recommandé par le fabricant de la baie et assurez-vous que celui-ci est adapté à l'appareil.
- Veillez à éviter tout contact de l'appareil avec de l'eau ou une humidité excessive.
- Veillez à ce que l'air puisse facilement circuler autour de l'unité et à travers les aérations prévues sur le côté de l'unité. Laissez un espace d'au moins 25,44 mm.
- Faites passer les câbles à une distance raisonnable des lignes électriques, des luminaires à lampe fluorescente et des sources de bruit telles que les radios, les émetteurs et les amplificateurs à large bande.
- Procédez au montage dans un endroit à l'abri des rayons du soleil et des sources de chaleur. Une température ambiante maximale de 40° C (104° F) est recommandée.
- Si l'appareil est installé dans une baie fermée ou dans un système regroupant plusieurs baies, il est possible que la température ambiante de service autour de la baie soit supérieure à la température ambiante de la pièce. Par conséquent, assurez-vous d'installer l'équipement dans un environnement correspondant à la température ambiante maximale recommandée.
- Montez les appareils SonicWall de manière égale dans la baie afin d'empêcher toute situation dangereuse due à un chargement mécanique inégal.
- Quatre vis de montage compatibles avec la conception de la baie doivent être utilisées et serrées à la main pour garantir une installation sécuritaire. Choisissez un emplacement de montage où les quatre trous de montage sont alignés sur ceux des barres de montage de la baie de 19 pouces.
- Un disjoncteur différentiel homologué et de puissance nominale appropriée doit être installé dans le bâtiment. Respectez la réglementation locale lorsque vous achetez du matériel ou des composants.
- Soyez particulièrement vigilant quant au raccordement de l'équipement au circuit d'alimentation. Respectez pour cela les mentions figurant sur la plaque d'identification du produit. Ne surchargez pas le circuit.
- Il est impératif d'assurer une mise à la terre fiable et constante de l'équipement monté à la baie. Portez une attention particulière aux branchements d'alimentation autres que des connexions directes aux circuits de dérivation, telles les multiprises.
- Les cordons d'alimentation inclus sont uniquement approuvés pour une utilisation dans certaines régions et certains pays. Avant d'utiliser un cordon d'alimentation, vérifiez qu'il est bien conforme et approuvé aux normes de votre emplacement.
- Ce produit n'est pas conçu pour être installé et utilisé à domicile ou dans les lieux publics accessibles au grand public.
- Lorsqu'utilisé dans des écoles, cet équipement doit être installé dans un lieu sécurisé uniquement accessible au personnel qualifié.
- Lorsqu'expédié directement depuis l'usine, ce produit SonicWall est équipé d'un seul bloc d'alimentation. Pour plus de fiabilité, il est possible de commander et d'installer un second bloc d'alimentation afin d'assurer une alimentation CA redondante. Lorsque ce second bloc d'alimentation est installé, les deux cordons d'alimentation doivent être débranchés pour déconnecter l'alimentation CA (courant alternatif) ou l'alimentation CC.

15 Safety and Regulatory Information

Regulatory Model Numbers	
Regulatory Model/Type	Product Name
1RK39-0C9	NSa 4650
1RK39-0CA	NSa 5650
1RK39-0CB	NSa 6650

Installation Requirements

WARNING: The following conditions are required for proper installation.

- The SonicWall appliance is designed to be mounted in a standard 19-inch rack mount cabinet.
- Use the mounting hardware recommended by the rack manufacturer and ensure that the rack is adequate for the application.
- Ensure that no water or excessive moisture can enter the unit.
- Allow unrestricted airflow around the unit and through the vents on the side of the unit. A minimum of 1 inch (26mm) clearance is recommended.
- Route cables away from power lines, fluorescent lighting fixtures, and sources of noise such as radios, transmitters, and broadband amplifiers.
- Mount in a location away from direct sunlight and sources of heat. A maximum ambient temperature of 104° F (40° C) is recommended.
- If installed in a closed or multi-rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum recommended ambient temperature.
- Mount the SonicWall appliances evenly in the rack in order to prevent a hazardous condition caused by uneven mechanical loading.
- Four mounting screws, compatible with the rack design, must be used and hand-tightened to ensure secure installation. Choose a mounting location where all four mounting holes line up with those of the mounting bars of the 19-inch rack mount cabinet.
- A suitably rated and approved branch circuit breaker shall be provided as part of the building installation. Follow local code when purchasing materials or components.
- Consideration must be given to the connection of the equipment to the supply circuit. Appropriate consideration of equipment nameplate ratings must be used when addressing this concern. Do not overload the circuit.
- Reliable grounding of rack-mounted equipment must be maintained. Particular attention must be given to power supply connections other than direct connections to the branch circuits, such as power strips.