



FortiGate-3950B-DC QuickStart Guide



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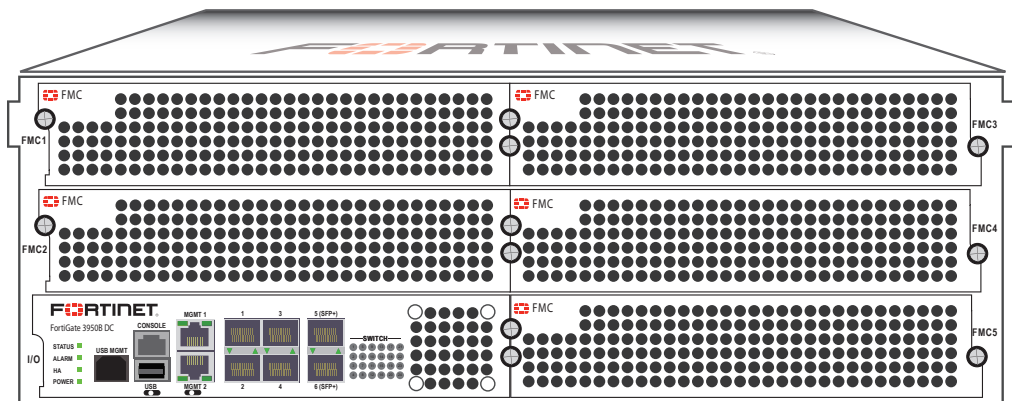
1. Package Contents



Fortinet's consolidated security solutions provide an integrated set of core security and network services in a single, easy-to-manage, high-performance appliance that is capable of supporting a wide range of deployment scenarios.

Your box contains the following:

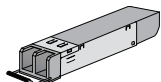
- FortiGate-3950B-DC
- QuickStart Guide
- Tools and Documentation CD
- Straight-through Ethernet cable
- 2 Power Cables
- Console Cable
- 2 SFP+ Transceivers
- 2 Front Handles, Middle Rack Mounting Ears, and Slide Rails
- 6 Rubber Feet



Straight-through Ethernet cable



Console Cable



2 SFP+ Transceivers



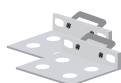
2 Slide Rails



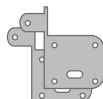
2 Power Cables



Rubber Feet



2 Front Handles



2 Middle Rack-Mount Ears



Tools and Documentation CD

QuickStart Guide

2. Installation



Ensure the FortiGate unit is placed on a stable surface prior to rack-mount installation.

Caution: Electrostatic discharge (ESD) can damage your Fortinet equipment.

Caution: Do not place heavy objects on the unit.

Caution: To avoid personal injury or damage to the unit, it is recommended that two or more people install the unit into the rack.

Rack-Mount Installation:

1. Using the supplied hardware, attach the rack-mount brackets to each side of the unit.
2. Place the unit into your equipment rack and secure the rack-mount brackets using the supplied hardware.
3. Connect the power cables to the power supplies.
4. Connect the power leads to you DC power source.

Caution: Please consult a licensed electrician before connecting this product to a DC power source, or hire a licensed electrician to perform all connections.

SFP Transceivers

To install the transceivers:

1. Remove the caps from SFP cage sockets on the front panel.
2. Ensure that the SFP transceiver is oriented correctly.
3. Hold the sides of the SFP transceiver and slide the SFP transceiver into the cage socket until it clicks into place.

Caution: Do not force the SFP transceivers into the cage slots. You can damage the connector if handling the SFP transceivers by holding the release latch. If the transceiver does not easily slide in and click into place, it may not be aligned correctly or may be upside down. If this happens, remove the SFP transceiver, realign it or rotate it and slide it in again.

3. Connecting to the FortiGate Unit



The FortiGate unit requires some basic configuration to add it to your network. These basic steps include assigning IP addresses, DNS settings, and the default gateway. Until these steps are completed traffic will not flow through the device.

The FortiGate unit can be configured using the Web-based Manager or the CLI. This section will step you through both methods of connecting to the unit. Use whichever method you are most comfortable with.

To Connect to the Web-based Manager:

1. Connect the FortiGate unit MGMT1 port to a management computer using the provided Ethernet cable.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiGate unit:
 - a. Browse to the *Network and Sharing Center > Change Adapter Settings > Local Area Connection Properties > Internet Protocol Version 4 (TCP/IPv4) Properties*.
 - b. Change the IP address of the management computer to 192.168.1.2 and the netmask to 255.255.255.0.
3. To access the FortiGate unit Web-based Manager, start a browser of your choice and browse to `https://192.168.1.99` (remember to include the “s” in `https://`).
4. Type `admin` in the *Name* field, leave the *Password* field blank, and select *Login*.

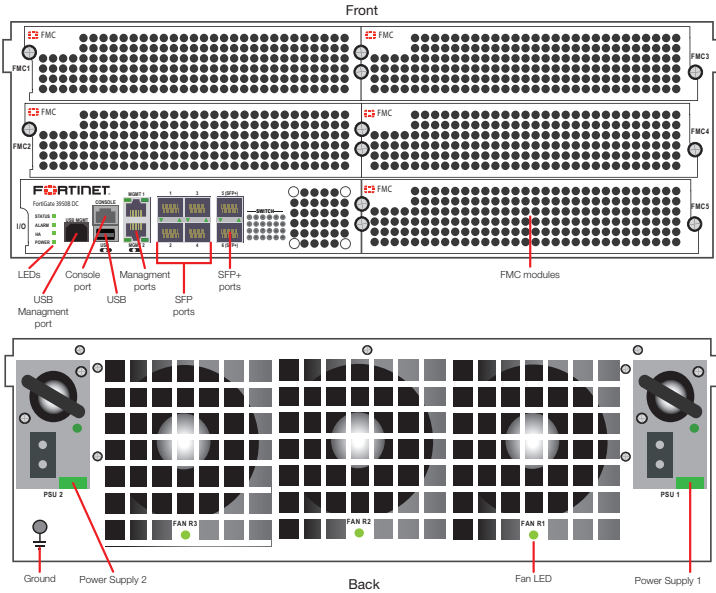
You can now proceed with configuring your FortiGate unit.

To Connect to the CLI:

You can configure all FortiGate configuration options from the CLI using *config* commands. The CLI also includes *get*, *show*, *diagnose*, and *execute* commands for performing various configuration and monitoring tasks.

1. Connect the FortiGate unit console port to the management computer using the provided console cable.
2. Start a terminal emulation program on the management computer. Use the following settings:
 - Baud Rate: 9600
 - Data bits: 8
 - Parity: None
 - Stop bits: 1
 - Flow Control: None
3. Press *Enter* on your keyboard to connect to the CLI.
4. Type `admin` in the *Name* field, leave the *Password* field blank, and press *Enter*.
You can now proceed with configuring your FortiGate unit.

4. Technical Specifications



Interface	Type	Speed	Protocol	Description
Ports 1 to 4	SFP (SX or LX)	1 Gbps/auto	Ethernet	Small form-factor pluggable transceiver.
Ports 5 to 6	SFP+	10 Gbps/auto	Ethernet	Small form-factor pluggable transceiver.
USB Management	USB B		USB 2.0	Client port for management.
USB	USB A		USB 2.0	Optional connections for the USB key, modem, or backup operation.
CONSOLE	RJ-45	9600 bps	RS-232 serial	Optional connection to the management computer. Provides access to the command line interface (CLI).
MGMT 1 and MGMT 2	RJ-45	10/100/1000 Base-T	Ethernet	Two management ports.
FMC slots 1 to 5	FMC			Five Fortinet Mezzanine Card (FMC) slots.

Hardware Specification	Description
Internal Storage	non-removable, 2x 128GB Solid State Drive (SSD)
Memory	24GB (DDR3)
DC Power	-48V DC
Redundant Power Supply	Optional
Power Consumption (Avg. / Max)	382W / 458.4W
Heat Dissipation	1564BTU/h

5. LED Specifications

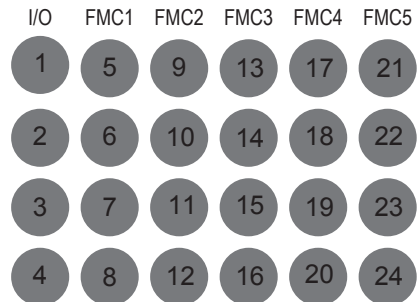


LED	State	Description	
Power	Green	The unit is on.	
	Off	The unit is off.	
Status	Green	The unit is operating normally.	
	Flashing Green	The unit is turning on.	
	Off	The unit is off.	
HA	Green	The unit is operating in normal HA mode.	
	Red	The unit is operating in failover HA mode.	
	Off	The unit is not operating in HA mode.	
Alarm		Not in use.	
Ports 1-6	Link	Green	Port is online.
		Off	Port is offline.
	Activity	Flashing Green	Port is transmitting and receiving data.
		Off	Port might be on but is not receiving or sending data.
Management (MGMT) ports 1 and 2	Link	Green	Port is online.
		Flashing Green	Port is transmitting and receiving data.
	Activity	Green	Port is connected at 1000Mbps.
		Amber	Port is connected at 100Mbps.
		Off	Port is connected at 10Mbps or is not in use.
Power Supply	Green	Cable is connected and has power.	
	Amber	Cable is not connected or does not have power.	
Fan	Green	The fan is running and the speed is within proper range.	
	Off	The fan is not running or the speed is over threshold.	
Switch LEDs	Green	The FMC module is inserted properly and the interfaces are online.	
	Off	The FMC is unavailable, offline, or there is an interface problem.	

FMC Modules – Switch LEDs

Each FMC module has four LEDs in each column. The LEDs in columns FMC1 to FMC5 correspond to the four interfaces on a FMC module. When a FMC module is inserted into the unit, all four LEDs in the corresponding FMC column should be green. This indicates that the FMC module is running normally. If any of the four LEDs in the column are off, this indicates that the corresponding FMC module may have a problem. Please contact Fortinet support if this occurs.

The four LEDs in the I/O column should always remain green.



6. Technical Documentation and Links



The following Fortinet web pages provide information and resources for your Fortinet product:

Fortinet Customer Support: <https://support.fortinet.com>

On this page you can create a support account with Fortinet, register and manage your products, download updates, firmware images and release notes, and create technical support tickets.

Fortinet Technical Documentation: <http://docs.fortinet.com>

This page provides the most up-to-date versions of Fortinet publications for the entire family of Fortinet products. The following guides more information on the installation and configuration of your Fortigate unit:

Hardware Guide: This guide describes how to mount your FortiGate unit, hardware acceleration, and configuring Redundant Array of Independent Disks (RAID).

System Administration Guide: This guide describes initial configuration of your FortiGate unit, centralized management, tightening security, best practices, and configuration examples.

FortiGate Fundamentals Guide: This guide describes NAT versus Transparent mode, packet flow and inspection, firewall components, virtual IPs, security policies, UTM profiles, and troubleshooting traffic.

UTM Guide: The guide includes examples and step-by-step instructions for the UTM features available on your FortiGate unit, such as antivirus, intrusion prevention system (IPS), web and email filtering, Data Leak Prevention (DLP), and application control.

Troubleshooting Guide: This guide describes the troubleshooting process and best practice concepts, how Fortinet Support operates, and diagnostic commands in the CLI.

Fortinet Knowledge Base: <http://kb.fortinet.com>

This page provides Fortinet technical documentation, such as troubleshooting, how-to articles, example configurations, FAQs, technical notes, and more.

Fortinet Technical Discussion Forums: <http://support.fortinet.com/forum>

This page allows you to communicate with other customers and Fortinet partners about Fortinet products, services, and configuration issues in a forum environment.

Fortinet Training Services: <http://training.fortinet.com>

This page provides course descriptions, availability, schedules, and locations of training programs in your area.

FortiGuard Threat Research and Response: <http://www.fortiguard.com>

This page provides up-to-date information on vulnerabilities and threats, and includes a virus scanner, Internet Protocol (IP) signature look-up, web filtering tools, and related information.

Fortinet Tools and Documentation CD

The tools and documents on this CD are current as of shipping time.

Comments on Technical Documentation

Please send comments or information about any errors or omissions in this or any Fortinet technical documents to techdoc@fortinet.com.

7. Cautions and Warnings



Please review the following cautions and warnings.

Environmental specifications

Operating temperature: 32 to 104°F (0 to 40°C)

If you install your Fortinet product in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient temperature. Therefore, make sure to install the equipment in an environment compatible with the manufacturer's maximum rated ambient temperature.

Storage temperature: -31 to 158°F (-35 to 70°C)

Humidity: 20% to 90% non-condensing

Air flow - For rack installation, make sure that the amount of air flow required for safe operation of the equipment is not compromised.

For free-standing installation, make sure that the appliance has at least 1.5in. (3.75cm) of clearance on each side to allow for adequate air flow and cooling.

FCC Compliance

Your Fortinet product complies with either FCC Class A or FCC Class B rules.

The Fortinet product has been tested and found to comply with part FCC Class A, Part 15, UL/CUL, C Tick, CE and VCCI.

Operation is subject to the following two conditions:

This device may not cause harmful interference, and

This device must accept any interference received, including interference that may cause undesired operation.

The Fortinet product 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 to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

The equipment complies with FCC radiation exposure limits set forth for uncontrolled environments.

Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to your local regulations.

Grounding

Ensure your Fortinet product is connected and properly grounded to a lightning and surge protector. WAN or LAN connections that enter the premises from outside the building should be connected to an Ethernet CAT5 (10/100 Mb/s) surge protector.

Shielded Twisted Pair (STP) Ethernet cables should be used whenever possible rather than Unshielded Twisted Pair (UTP).

Do not connect or disconnect cables during lightning activity to avoid damage to your Fortinet product or personal injury.

Electrostatic discharge (ESD) can damage Fortinet equipment. Only perform the procedures described in this document from an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an anti-static wrist strap and attaching it to an available ESD connector or other bare metal object.

8. Register Your Product



If you did not register your Fortinet product, please register your product now.

Register

Register your Fortinet product in order to receive:

- Technical Support
- New product features
- Protection from new threats

Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique
- Nouvelles fonctionnalités du produit
- Protection contre de nouvelles menaces

Registra

La reistrazione ti permette di usufruire di:

- Supporto Tecnico
- Nuove funzionalita
- Protezione dalle ultime minacce

Registrar

Debe registrar el producto para recibir:

- Apoyo técnico
- Nuevas funcionalidades del producto
- Protección contra ataques

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登録すると次のメリットがあります。

テクニカルサポート・新機能の追加・新しい脅威への防御

请马上注册

您的飞塔产品

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Web: <http://www.fortinet.com/register>

Toll free: 1 866 648 4638

Phone: 1 408 486 7899

Fax: 1 408 235 7737

Email: register@fortinet.com

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