

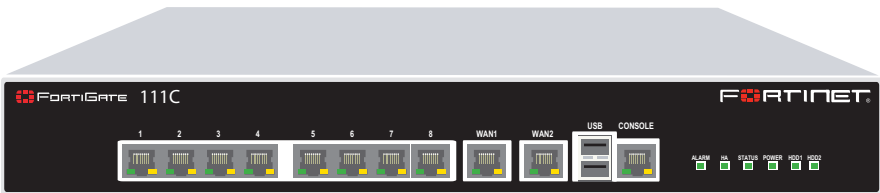
LED	State	Description
Power	Green	The FortiGate unit is on.
	Off	The FortiGate unit is off.
Status	Green	Flashes during startup
	On	The FortiGate unit is running normally.
HA	Green	The FortiGate unit is running in HA mode.
	Off	The FortiGate unit is not in HA mode.
Alarm	Amber	TBD
	Off	The FortiGate unit is running normally.
Left LED Ports 1 to 8, WAN1, WAN2	Green	The correct cable is in use and the connected equipment has power.
	Off	No network cable connected.
Right LED Ports 1 to 8, WAN1, WAN2	Green	Network speed of 1000 megabyte (WAN1 and WAN2 only)
	Yellow	Network speed of 100 megabyte.
	Off	Network speed of 10 megabyte.
HDD1, HDD2	Flashing Green	Read/write activity on the hard disk.

Visit these links for more information and documentation for your Fortinet product.

- Technical Documentation - <http://docs.forticare.com>
- Fortinet Knowledge Center - <http://kc.forticare.com>
- Fortinet Technical Support - <http://support.fortinet.com>

QuickStart Guide

FortiGate-111C

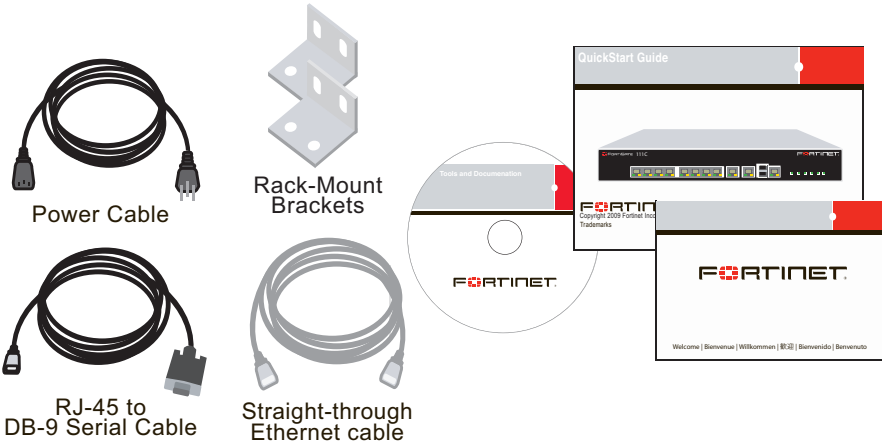
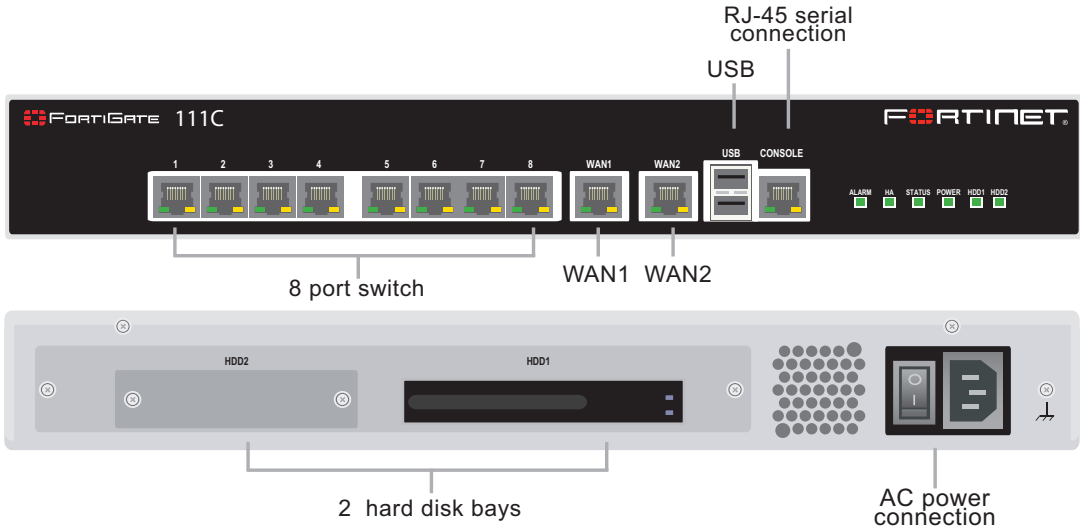


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Regulatory Compliance
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Package Contents

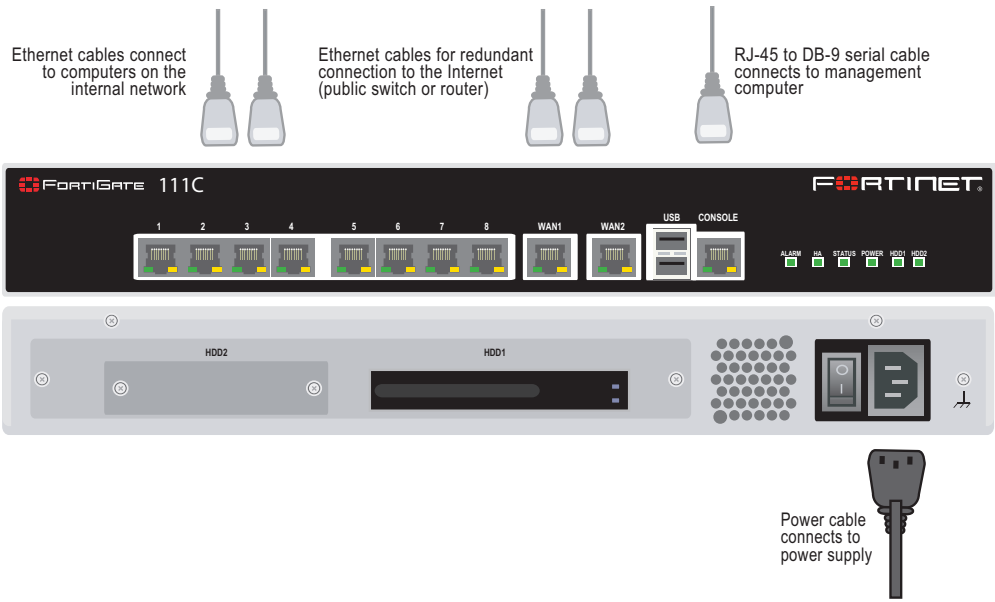
Connector	Type	Speed	Protocol	Description
Ports 1 to 8	RJ-45	10/100 Base-T	Ethernet	8-port switch connection to up to eight devices or the internal network.
WAN1, WAN2	RJ-45	10/100/1000 Base-T	Ethernet	Optional redundant connection to the Internet.
CONSOLE	RJ-45	9600 bps 8/N/1	RS-232 serial	Optional connection to the management computer. Provides access to the command line interface.
USB	USB		USB	Optional connection for USB key for firmware backup and installation.



Connecting

Connect the following to the FortiGate unit. Ensure the FortiGate unit is placed on a stable surface. If you are installing the FortiGate unit in rack, ensure there is sufficient airflow on top of by leaving a minimum of 2mm of space over the top of the FortiGate unit. Ensure the FortiGate unit has sufficient support for the back of the device using rear rack mounting support or placing on a shelf.

- Insert a network cable to WAN 1. Insert the other end to the router connected to the Internet, or to the modem.
- Connect a network cable to the Internal port. Insert the other end to a computer or switch.
- Connect the AC Power Cord to the Power Supply.
- Connect the Power Cord to a surge protected power bar or power supply.



Configuration Tools

Web-based manager

The FortiGate web-based manager is an easy to use management tool. Use it to configure the administrator password, the interface and default gateway addresses, and the DNS server addresses.

Requirements:

- An Ethernet connection between the FortiGate unit and management computer.
- A web browser such as FireFox or Internet Explorer on the management computer.

Command Line Interface (CLI)

The CLI is a full-featured management tool. Use it to configure the administrator password, the interface addresses, the default gateway address, and the DNS server addresses. To configure advanced settings, see the Tools and Documentation CD included with the FortiGate unit.

Requirements:

- The RJ-45 to DB9 serial connection between the FortiGate unit and management computer.
- A terminal emulation application (HyperTerminal for Windows) on the management computer.

NAT/Route Mode

Port	IP:	____.____.____.____
	Netmask:	____.____.____.____
Port	IP:	____.____.____.____
	Netmask:	____.____.____.____
Port	IP:	____.____.____.____
	Netmask:	____.____.____.____
Port	IP:	____.____.____.____
	Netmask:	____.____.____.____
Port	IP:	____.____.____.____
	Netmask:	____.____.____.____

The internal interface IP address and netmask must be valid for the internal network.

Transparent mode

Management IP:	IP:	____.____.____.____
	Netmask:	____.____.____.____

The management IP address and netmask must be valid for the network from which you will manage the FortiGate unit.

NAT/Route mode

You would typically use NAT/Route mode when the FortiGate unit is deployed as a gateway between private and public networks. In its default NAT/Route mode configuration, the unit functions as a firewall. Firewall policies control communications through the FortiGate unit.

Web-based Manager

1. Connect the FortiGate internal interface to a management computer Ethernet interface. Use a cross-over Ethernet cable to connect the devices directly. Use straight-through Ethernet cables to connect the devices through a hub or switch.
2. Configure the management computer to be on the same subnet as the internal interface of the FortiGate unit. To do this, 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 web-based manager, start Internet Explorer and browse to https://192.168.1.99 (remember to include the “s” in https://).
4. Type admin in the Name field and select Login.

NAT/Route mode

To change the administrator password

1. Go to **System > Admin > Administrators**.
2. Select Change Password for the admin administrator and enter a new password.

To configure interfaces

1. Go to **System > Network > Interface**.
2. Select the edit icon for each interface to configure.
3. Set the addressing mode for the interface. (See the online help for information.)
 - For manual addressing, enter the IP address and netmask for the interface.
 - For DHCP addressing, select DHCP and any required settings.
 - For PPPoE addressing, select PPPoE, and enter the username and password and any other required settings.

To configure the Primary and Secondary DNS server IP addresses

1. Go to **System > Network > Options**, enter the Primary and Secondary DNS IP addresses that you recorded above and select Apply.

To configure a Default Gateway

1. Go to **Router > Static** and select Edit icon for the static route.
2. Set Gateway to the Default Gateway IP address you recorded above and select OK.

Transparent mode

To switch from NAT/route mode to transparent mode

1. Go to **System > Config > Operation Mode** and select Transparent.
2. Set the Management IP/Netmask to 192.168.1.99/24.
3. Set a default Gateway and select Apply.

To change the administrator password

1. Go to **System > Admin > Administrators**.
2. Select Change Password for the admin administrator and enter a new password.

To change the management interface

1. Go to **System > Config > Operation Mode**.
2. Enter the Management IP address and netmask that you recorded above and select Apply.

To configure the Primary and Secondary DNS server IP addresses

1. Go to **System > Network > Options**, enter the Primary and Secondary DNS IP addresses that you recorded above and select Apply.

General settings

Administrator password:		
Network Settings:	Default Gateway:	____.____.____.____
	Primary DNS Server:	____.____.____.____
	Secondary DNS Server:	____.____.____.____

A default gateway is required for the FortiGate unit to route connections to the Internet.

Factory default settings

NAT/Route mode		Transparent mode	
Port 1 interface	192.168.1.99	Management IP	0.0.0.0
WAN1 interface	192.168.100.99	Administrative account settings	
WAN2 interface	0.0.0.0	User name	admin
		Password	(none)

To reset the FortiGate unit to the factory defaults, in the CLI type the command
`execute factory reset`

Transparent mode

You would typically use the FortiGate unit in Transparent mode on a private network behind an existing firewall or behind a router. In its default Transparent mode configuration, the unit functions as a firewall.

Command Line Interface

1. Use the RJ-45 to DB9 serial cable to connect the FortiGate Console port to the management computer serial port.
2. Start a terminal emulation program (HyperTerminal) on the management computer. Use these settings:
3. Baud Rate (bps) 9600, Data bits 8, Parity None, Stop bits 1, and Flow Control None.
4. At the Login: prompt, type admin and press Enter twice (no password required).

NAT/Route mode

1. Configure the FortiGate internal interface.

```
config system interface
    edit internal
        set ip <interface_ipv4mask>
    end
```
2. Repeat to configure each interface, for example, to configure the WAN1 interface.

```
config system interface
    edit wan1
        ...
```
3. Configure the primary and secondary DNS server IP addresses.

```
config system dns
    set primary <dns_ipv4>
    set secondary <dns_ipv4>
end
```
4. Configure the default gateway.

```
config router static
    edit 1
        set gateway <gateway_address_ipv4>
    end
```

Transparent Mode

1. Change from NAT/Route mode to Transparent mode and configure the Management IP address.

```
config system settings
    set opmode transparent
    set manageip <manage_ipv4>
    set gateway <gw_ipv4>
end
```
2. Configure the DNS server IP address.

```
config system dns
    set primary <dns_ipv4>
    set secondary <dns_ipv4>
end
```