

LED	State	Description	
Power	Green	The unit is on.	
	Off	The unit is off.	
Ports A1 and A2 (1000AFA2)	Green	Port is online.	
	Flashing	Port is sending or receiving data.	
Ports 1 to 10	Link/Activity	Green	Port is online.
	Link/Activity	Flashing	Port is sending or receiving data.
	Speed	Green	Connected at 1000Mbps.
		Amber	Connected at 100 Mbps.
Off		Connected at 10 Mbps.	

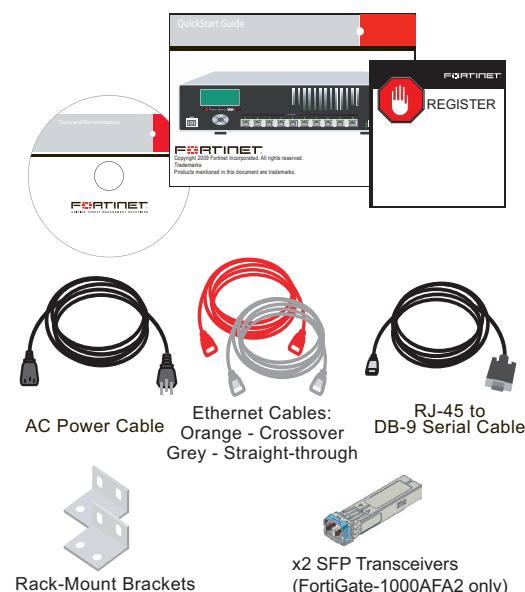
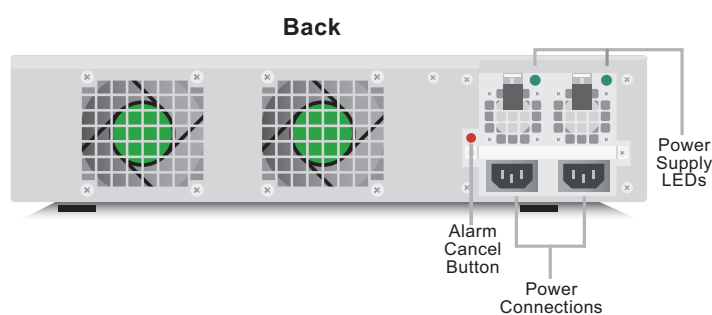
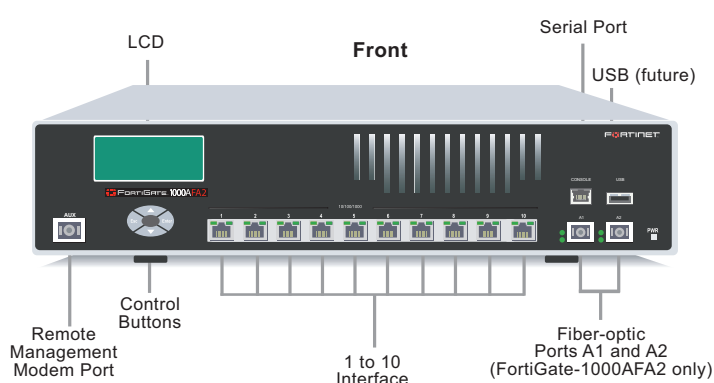


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 Regulatory Compliance
 FCC Class B Part 15 CSA/CUS
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Package Contents

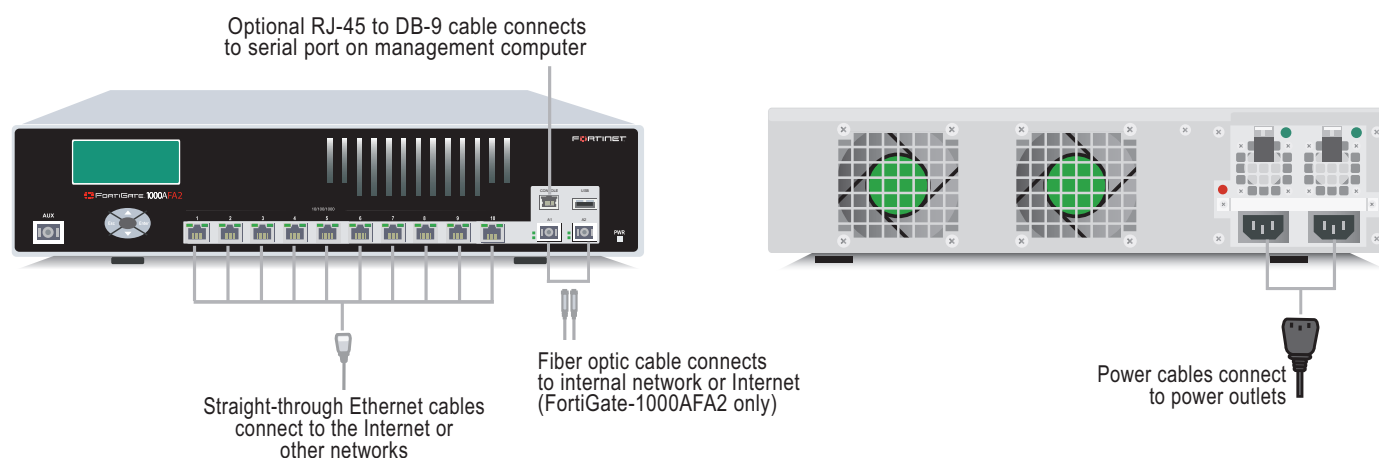
Connector	Type	Speed	Protocol	Description
Ports 1 to 10	RJ-45	1000 Base-T	Ethernet	Copper gigabit connection to 10/100/1000 copper networks.
Ports A1 and A2 (1000AFA2)	LC SFP	1000Base-SX	Ethernet	Multimode fiber optic connections to gigabit optical networks for small packet performance required for voice, video and other multimedia streaming applications.
CONSOLE	RJ-45	9600 bps	RS-232 serial	Optional connection to the management computer. Provides access to the command line interface (CLI).
USB	USB		USB	Optional connection to a FortiUSB key for firmware backup and installation.



Connecting

Connect the FortiGate unit to a power outlet and to the internal and external networks.

- Place the unit on a stable surface.
- The FortiGate unit requires 1.5 inches (3.75 cm) clearance above and on each side to allow for cooling.
- Make sure the power switch on the back of the unit is turned off before connecting the power and network cables.
- MAIN MENU appears when the unit is up and running.
- If only one power supply is connected, an audible alarm sounds to indicate a failed power supply. To stop this alarm, press the red alarm cancel button.



Configuration Tools

Web Config

Web Config 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, add devices for log collection and configure reports.

Requirements:

- An Ethernet connection between the Fortinet 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-ROM.

Requirements:

- The RJ-45 to DB-9 serial connection between the Fortinet unit and the management computer.
- A terminal emulation application (HyperTerminal for Windows) on the management computer.

Collecting Information

NAT/Route Mode

Port 1	IP:	_____
	Netmask:	_____
Port 2	IP:	_____
	Netmask:	_____
Port 3	IP:	_____
	Netmask:	_____
Port 4	IP:	_____
	Netmask:	_____
Port 5	IP:	_____
	Netmask:	_____
Port 6	IP:	_____
	Netmask:	_____
Port 7	IP:	_____
	Netmask:	_____
Port 8	IP:	_____
	Netmask:	_____
Port 9	IP:	_____
	Netmask:	_____
Port 10	IP:	_____
	Netmask:	_____
Port A1	IP:	_____
	Netmask:	_____
Port A2	IP:	_____
	Netmask:	_____

The internal interface IP address and netmask must be valid for the internal network. A default gateway is required for the FortiGate unit to route connections to the Internet.

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.

General settings

Administrator password:		
Network Settings:	Default Gateway:	_____
	Primary DNS Server:	_____
	Secondary DNS Server:	_____

Factory default settings

NAT/Route mode	Administrative account settings		
Port 1	192.168.1.99	User name	admin
Port 2	192.168.100.99	Password	(none)
Ports 3 to 12	0.0.0.0		
DHCP server on Internal interface	192.168.1.110 – 192.168.1.210		

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

Configuring

NAT/Route mode

You would typically use NAT/Route mode when the Fortinet 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 Fortinet unit.

Web Config

1. Connect the Fortinet unit's 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 Fortinet 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 Fortinet 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 leave the password field blank. Click **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.

Transparent mode

You would typically use the Fortinet 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 Fortinet unit's 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 Fortinet unit's internal interface.

```
config system interface
  edit internal
    set ip <intf_ip>/<netmask_ip>
  end
```
2. Repeat to configure each interface, for example, to configure the Port 1 interface.

```
config system interface
  edit port1
    ...
```
3. Configure the primary and secondary DNS server IP addresses.

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

```
config router static
  edit 1
    set gateway <gateway_ip>
  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 <mng_ip>/<netmask>
  set gateway <gateway_ip>
end
```
2. Configure the DNS server IP address.

```
config system dns
  set primary <dns-server_ip>
  set secondary <dns-server_ip>
end
```

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

- Technical Documentation - <http://docs.fortinet.com>
- Knowledge Center - <http://kb.fortinet.com>
- Technical Support - <http://support.fortinet.com>
- Training Services - <http://campus.training.fortinet.com>