

LED	State	Description
Power	Green	The FortiGate unit is on.
	Off	The FortiGate unit is running abnormally.
Status	Green	The FortiGate unit is running normally.
	Flashing Green	The FortiGate unit is running abnormally.
	Off	The FortiGate unit is off.
Port 1 to 8 (Right LED)	Green	The correct cable is in use and the connected equipment has power.
	Flashing Green	Network activity at this interface.
	Off	No link established.
Port 1 to 8 (Left LED)	Green	Connection at 1000 Mb
	Amber	Connection at 100 Mb
	Off	Connection at 10 Mb
Port 9 and 10	Green	The correct cable is in use and the connected equipment has power.
	Flashing Green	Network activity at this interface.

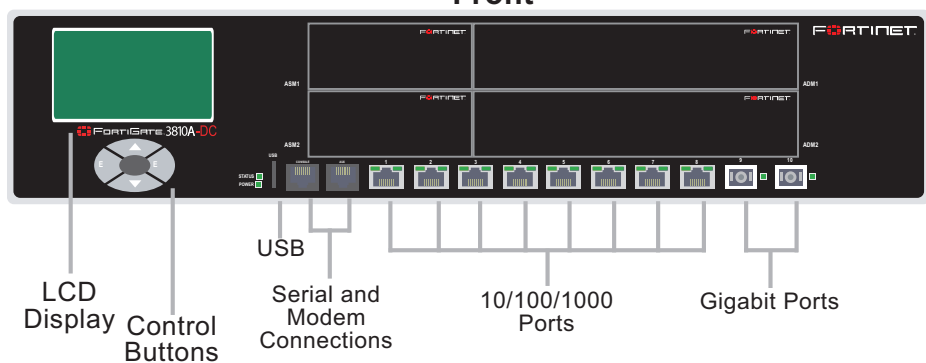
Visit these links for more information and documentation for your Fortinet product.

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

Package Contents

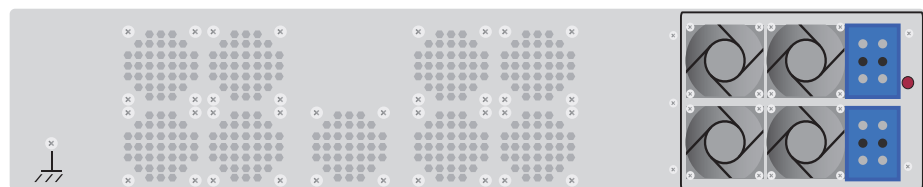
Connector	Type	Speed	Protocol	Description
Ports 1 to 8	RJ-45	1000 Base-T	Ethernet	Copper gigabit connection to 10/100/1000 copper networks.
Ports 9 and 10	LC SFP	1000Base-SX	Ethernet	Multimode fiber optic connections to gigabit optical networks for small packet performance required for voice, video and other multimedia streaming applications.
CONSOLE	RJ-45	9600 bps 8/N/1	RS-232 serial	Optional connection to the management computer. Provides access to the command line interface (CLI).
USB	USB		USB	Optional connection to a USB key for firmware backup and installation.

Front



LCD Display Control Buttons
USB Serial and Modem Connections
10/100/1000 Ports
Gigabit Ports

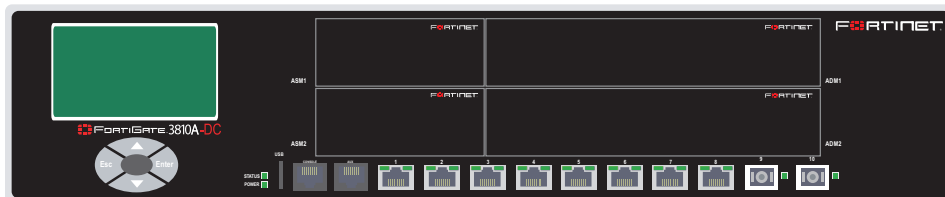
Back



Ground DC Power Connections

QuickStart Guide

FortiGate-3810A-DC



FORTINET

© Copyright 2008 Fortinet Incorporated. All rights reserved.
Products mentioned in this document are trademarks or registered trademarks of their respective holders.
Regulatory Compliance
FCC Class B Part 15 CSA/CUS
20 October 2008

01-30006-80085-20081020

Connecting

Connect the following to the FortiGate unit. Ensure the FortiGate unit is placed on a stable surface.

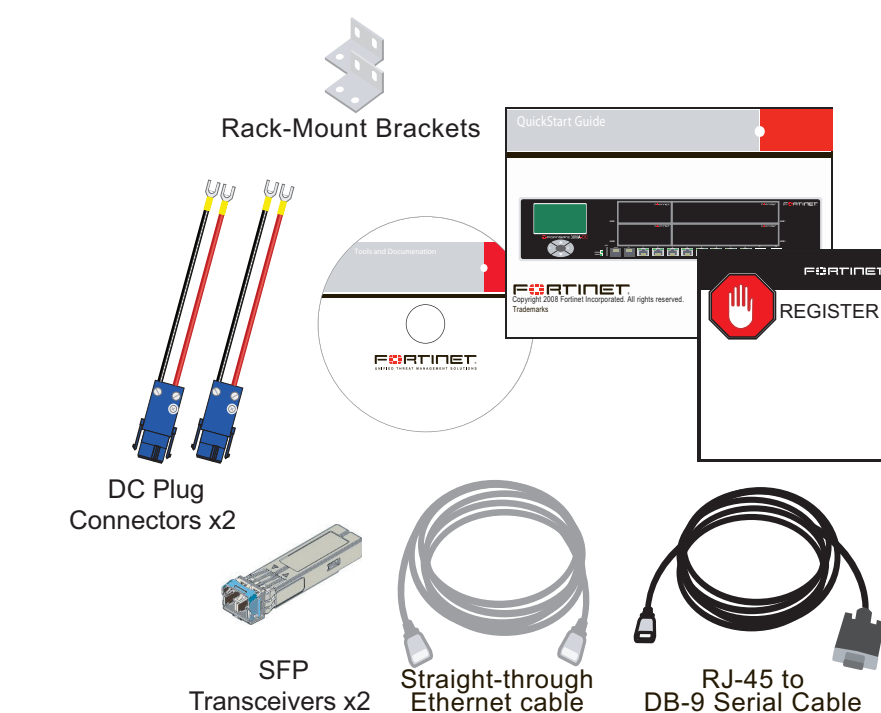
- Insert a network cable to the ports on the FortiGate unit. Insert the other end to the router connected to the Internet, or to the modem.
- Connect a network cable to Port 1. Insert the other end to a computer or switch.

Connect the FortiGate-3810A-DC chassis to data center DC power using the redundant power input connectors on the FortiGate back panel. If required, install terminal lugs on the wires before connecting them to the power input connectors.

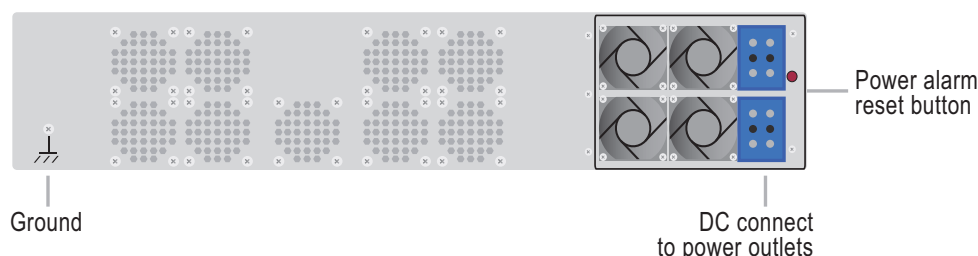
- Using the DC Plug connector, connect the red spade terminal to the DC power supply 0V (Return).
- Using the DC Plug connector, connect the black spade terminal to the DC power supply -48V.
- Using the DC Plug connector, insert the blue connector end into the DC power outlets on the back of the FortiGate unit. 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.

Note: A 20A circuit breaker is required.

CAUTION: This equipment is designed to permit the connection of the earthed conductor of the DC supply circuit to the earthing conductor at the equipment. See the *Install Guide* for information on connecting the power supply.



RJ-45 to DB-9 cable connects to serial port on management computer
Fiber optic cable connects to internal network or Internet
Straight-through Ethernet cables connect to the Internet or other networks



Ground DC connect to power outlets
Power alarm reset button

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.

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
Port 2 interface	192.168.100.99	Administrative account settings	
Port 3 interface	192.168.101.99	User name	admin
DHCP server on Internal interface	192.168.1.110 – 192.168.1.210	Password	(none)

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 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.

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.

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.

Refer to the Tools and Documentation CD for information on how to control traffic, and how to configure HA, antivirus protection, FortiGuard, Web content filtering, Spam filtering, intrusion prevention (IPS), and virtual private networking (VPN).

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 <intf_ip>/<netmask_ip>
    end
```
2. Repeat to configure each interface, for example, to configure the WAN1 interface.


```
config system interface
    edit wan1
        ...
    end
```
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
```