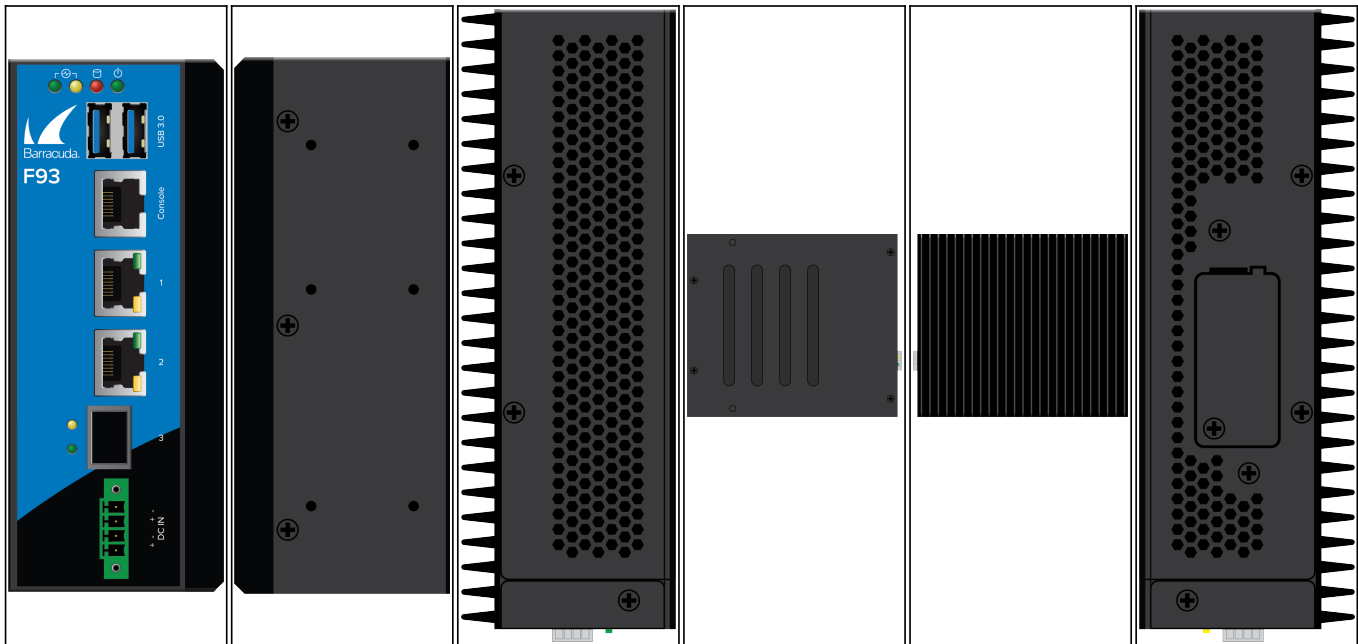# F93 Revision A (Rugged)

https://campus.barracuda.com/doc/91131615/

CloudGen Firewall F93a.R

Warranty and Safety Instructions

Opening your Barracuda Networks appliance or removing its warranty label will void your warranty and hardware support.

Barracuda Networks Appliance Safety Instructions

Power supply is not included in packaging and needs to be ordered separately (BNGF93A.PA009/BNGIF93A.PA009).

To prevent damage, connect the DC plug to the appliance before plugging the power adapter into the AC outlet.

Default Port Configuration

Port Label	OS Notation	Speed/Type	Management Port
1	p1	10/100/1000 MBit RJ45	X
2	p2	10/100/1000 MBit RJ45	

3	p3	1 GbE Optical Fiber SFP	

The CloudGen Firewall hardware appliances ship with a Quick Start Guide. Follow this guide to connect to your firewall. To protect your network, follow the instructions for the standard deployment.

Hardware Specifications

Interface	
Model F93a.R	2 x 1 GbE RJ45 1 x 1 GbE SFP Optical Fiber
USB 3.0	2
Serial console	1x DB9 RS232
System	
CPU	Intel Atom X-Series, 2 cores
RAM [GB]	4
Mass Storage	
Type	SSD
Size [GB]	100
Size, Weight, Dimensions	
Appliance weight [lbs] / [kg]	2.04 / 1.2
Carton weight with appliance [lbs] / [kg]	4.8 / 2.2
Appliance size: width x depth x height [in] / [mm]	2.04 x 5.9 x 5.11 / 52 x 150 x 130 (For more information, see Barracuda CGF F93a.R Measurements)
Carton size: width x depth x height [in] / [mm]	10 x 10 x 12 / 254 x 254 x 305
Hardware	
Form Factor	Compact, industrial
Display	-
Cooling	Fanless
Power supply	Not included in packaging. Must be ordered separately.
L-shape rack mount brackets	-
Wall-mount brackets	-
Din-Rail mount clip	Included in packaging
MTBF [SYSTEM]	
MTBF [yrs.] [g]	> 9

Environmental	
Noise emission [db/A]	n/a
Operating temperature [°F] / [°C]	-4 to +158 / -20 to +70
Storage temperature [°F] / [°C]	-67 to +185 / -55 to +85
Operating humidity (non-condensing)	5% to 90%
Certifications & Compliance	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
Power & Efficiency	
Power supply	Dual, with two external PSU adapters
Power supply type	External (PA009)
Output power [V] / [A] / [W]	12 / 8 / 96
Operating temperature [°C]	0 - 70
External power supply is not included in delivery of the appliance and needs to be ordered individually. For technical specifications, read the FSP096-AHAN3 Datasheet.	
Power connector	Phoenix contact 4-pin connector w/ lock
Power type [AC/DC]	DC
Input rating [Volts]	12 - 36
Wattage / max. power draw [W]	60
Max. power draw (@ 24Vdc) [A]	2.5
Max. heat dissipation [W]	60
IP Code	IP20

The hardware specifications list was valid at the time this manual was published. The listed components are subject to change at any time, as Barracuda Networks may change hardware components due to technological advancements. Therefore, the list may not reflect the current hardware configuration of the Barracuda Networks appliance it was delivered with.

LEDs and Acoustic Signals

Your appliance is equipped with a variety of LEDs and acoustic signals. The front panel contains one power LED (green), one status LED (greed/red), one disc LED (yellow), and various port LEDs. Two acoustic signals indicate appliance boots up or installation was completed.
The Status LED is labeled either with a heartbeat symbol or the term 'Status'. It indicates the appliance's operational state by changing colors between green and red and by changing between blinking and steady glowing. The tables below show the different meanings of the different glowing

states and acoustic signals:

LED Color	Status	Meaning Installation	Meaning Operation
All LEDs Off	Off	Appliance is powered off or installation has not initialized far enough for LED control when installation is started.	Appliance is powered off.
Power LED front side - BLUE	Steady	-	Appliance is plugged in and is on.
Status LED front side - GREEN/RED	Off	Installation has not initialized far enough for LED control when installation is started.	-
Status LED front side - GREEN	Steady	After a hotfix installation, the LED turns to green until the next reboot in case the hotfix installation was successful. This feature requires firmware 7.1.3 or higher OR 7.2.2 or higher.	Box is running normally, or installation has finished successfully.
Status LED front side - GREEN	Blinking slowly (1/s interval)	Normal installation.	Appliance is either booting, shutting down, or performing a system update.
Status LED front side - RED	Steady	After a hotfix installation, the LED turns to red until the next reboot in case the hotfix installation failed. This feature requires firmware 7.1.3 or higher OR 7.2.2 or higher.	Appliance is halted and may be disconnected, or an error occurred preventing the appliance from entering the up state.
Disc LED - YELLOW	Blinking	Appliance is reading or writing on storage.	Appliance is accessing the internal storage.
Port LEDs - GREEN/YELLOW	Left blinking	Data transfer – Yellow (10/100 Mbps)	Port in use.
	Right steady	-	Port is on.
Port LEDs 3 for Optical Fiber port - GREEN	Steady		Port is on.
	Blinking	Data transfer.	Port in use.
Port LEDs 6 and 7 for Optical Fiber ports - GREEN	Steady	-	Port is on.
	Blinking	Data transfer.	Port is in use.

Acoustic Signal	Frequency	Meaning
Beep	1 time (1sec.)	The appliance is booting.

Beep/Jingle	3 times (1sec.-1sec.-1sec.)	Installation was completed successfully. The appliance is halted for a reboot. After reboot, one beep will again indicate booting.

LED and acoustic signals may vary between different appliance models.

Serial Console Port

In order to establish a console connection to the appliance using an RS232 serial cable, you need to configure the serial port on the terminal using the following parameters:

Parameter	Value
Baud	19200
Bits	8
Stop bit	1
Parity	None
Handshake	None

Figures

1. F93.R_Front.png
2. F93.R_Back_noDINRAIL.png
3. F93.R_Bottom.png
4. F93.R_Left.png
5. F93.R_Right.png
6. F93.R_Top.png