

F1000 Revision A

<https://campus.barracuda.com/doc/71862294/>

The Barracuda CloudGen Firewall F1000 is available in four different sub-models. Each model offering a different setup of port modules. The Barracuda CloudGen Firewall F1000 has four different NIC module bays that can be equipped with the following field replaceable Barracuda Network Modules:

- [M1001](#)
- [M1002](#)
- [M1003](#)
- [M1004](#)

F1000 Rev. A Model CE0 (16x1 GbE RJ45 and 4x10GbE SFP+ Optical Fiber)



F1000 Rev. A Model CE2 (32x1GbE RJ45 Ethernet and 8x10GbE SFP+ Optical Fiber)



F1000 Rev. A Model CFE (16x1GbE RJ45 Ethernet, 16x1GbE SFP Optical Fiber, and 8x10GbE SFP+ Optical Fiber)



F1000 Rev. A Model CFEQ (16x1GbE RJ45 Ethernet, 16x1GbE SFP Optical Fiber, and 6x10GbE SFP+ Optical Fiber, 2x 40GbE QSFP+)



Default Port Configuration

Port Label	OS Notation	Speed/Type	Management Port
MGMT	MGMT	10/100/1000 MBit RJ45	X
IPMI	n.a.	n.a.	

Hardware Specifications

Warranty and Safety Instructions

Opening your Barracuda Networks appliance or removing its warranty label unless instructed to do so by Barracuda Networks Technical Support will void your warranty and hardware support. [Barracuda Networks Appliance Safety Instructions](#)

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.

Interface	
Model CC0	<ul style="list-style-type: none">• 16x 1 GbE RJ45 Ethernet• 4x 10 GbE SFP+
Model CE2	<ul style="list-style-type: none">• 32x 1 GbE RJ45 Ethernet• 8x 10 GbE SFP+
Model CFE	<ul style="list-style-type: none">• 16x 1 GbE RJ45 Ethernet• 16x 1 GbE SFP• 8x 10 GbE SFP+
Model CFEQ	<ul style="list-style-type: none">• 16x 1 GbE RJ45 Ethernet• 16x 1 GbE SFP• 6x 10 GbE SFP+• 2x 40 GbE QSFP+
USB 2.0	2
Serial console	1 [RJ45]
IPMI	1 [RJ45]

System	
CPU	2x Intel Xeon E5, 20 cores
RAM [GB]	128
Mass Storage	
Type	SSD
Size [GB]	550 GB or higher
Size, Weight, Dimensions	
Appliance weight [kg]	20
Carton weight with appliance [kg]	26
Appliance size: width x depth x height [mm]	432 x 626 x 88
Carton size: width x depth x height [mm]	590 x 870 x 290
Form factor	2U Rack Mount
Hardware	
Display	Yes
Cooling	Fans, hot swap
Power supply	Dual hot swap, internal
Environmental	
Noise emission [db/A]	N/A
Operating temperature [°C]	0 to +40
Storage temperature [°C]	-20 to +75
Operating humidity (non-condensing)	5% to 85%
Non-operating humidity (non-condensing)	up to 95%
Altitude during operation [m]	up to 2000
Certifications & Compliance	
CE emissions	Yes
CE electrical safety	Yes
FCC emissions	Yes
ROHS compliant	Yes
FCC Part 15, Subpart B: 2013	Yes
ANSI C63.4-2009	Yes
ICES-003 Issue 5: 2012	Yes
CISPR 22: 2008	Yes
CAN/CSA-CISPR 22-10	Yes
CSA 22.2 No. 60950 / UL 60950	Yes
Power & Efficiency	
Power supply type	Internal

Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	Yes
Wattage / max. power draw [W]	810
Max. power draw (@ 230V) [A]	3.5
Max. heat dissipation [W]	680.4
Max. heat dissipation [BTU]	2321.6
Energy efficiency [average]	> 86%

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 CloudGen Firewall or CloudGen Control Center appliance it was delivered with.

LEDs and Acoustic Signals

Your appliance is equipped with a variety of LEDs. One of them is the Status LED. It is labeled either with a heart 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 - GREEN	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 front side - 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.
PSU LEDs - GREEN	Steady	PSU modules connected and running	Power supply unit is up and running.
	Off	Power defective, standby, or shutdown	Power supply unit is off or in standby mode.
Acoustic Signal	Frequency	Meaning Installation	
Beep	1 time	Unit starts booting	
Beep	3 times	Installation is completed successfully and appliance is halted for reboot. After reboot, one beep indicates booting.	

Not all appliances support yellow and/or red LED colors. Depending on the appliance type, the status LED might be on by default and it might take some time during boot and installation to start either blinking or changing the color. Furthermore, the status LED might blink at different frequencies.

Serial Console Port

In order to establish a console connection to the appliance using a 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

LC Display

Navigating

This security appliance features a key pad with four keys and an LCD panel on the left side of the front panel. These may be used to obtain certain information and to perform certain commands directly on the appliance.

Keyboard Button	Command
Left arrow	Navigates back or acts like an Escape key while working in the LCD menu.
Up arrow	Navigates up or increases a value.
Down arrow	Navigates down or decreases a value.
Right arrow	Navigates forwards or acts like an Enter key for confirming a configuration step.

LCD Display Menu

You may use the LCD display and the keypad to access certain appliance features. Use the up and down keys to navigate through the items of the main menu.

The LCD menu features the following items from top to bottom:

LCD Menu	Meaning
Appliance type, OS version and release number	This is the default display.
IP address and subnet mask	Shows the configured IP address and subnet mask of the appliance.
Time and date	Shows time and date currently configured on the appliance.
Uptime of Barracuda OS	The uptime in days, hours and minutes.
Serial number of the appliance	Unique identifier for the appliance.
Shutdown menu	Enables you to shut down the appliance.
Reboot menu	Enables you to reboot the appliance.
Menu to change the management IP address	Configure the IP address for the management port.

Menu to boot into ART during the next reboot	<p>Enables you to set a flag that will cause the appliance to boot into ART the next time it is rebooted.</p> <p>Once set, this flag can not be deleted through the menu. When rebooted, the appliance will not start Barracuda OS, but ART instead. You may connect to the appliance by using the serial console or by SSH. A Control Center managed box running in ART mode cannot be managed through the CC, although it will build a connection to the CC signalling its presence.</p>
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Figures

1. F1000.CE0_FrontRack.png
2. F1000.back.png
3. F1000.CE2_FrontRack.png
4. F1000.CFE_FrontRack.png
5. F1000.CFEQ_FrontRack.png

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