Barracuda CloudGen Firewall

SC2

SC2 Top View

SC2 Front View
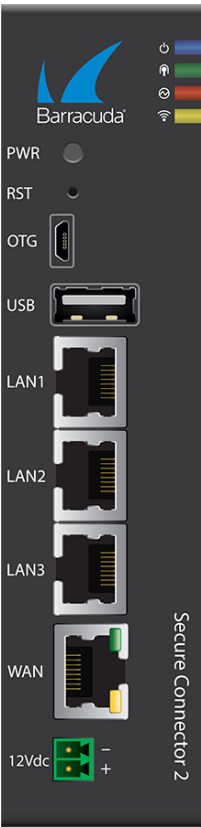
Default Port Configuration

Port Label	OS Notation	Speed/Type	Management Port
WAN	eth1	10/100/1000 MBit RJ45	(Management Port)
LAN1	eth0	10/100/1000 MBit RJ45	n.a.
LAN2	eth3	10/100/1000 MBit RJ45	n.a.
LAN3	eth4	10/100/1000 MBit RJ45	n.a.
OTG	-	Micro USB B	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 support will void your warranty and hardware support. Barracuda Networks Appliance Safety Instructions

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

If required, you can reset the configuration on your Secure Connector hardware appliances. For more information, see Secure Connector Troubleshooting.

Do not operate the appliance simultaneously with both 12V DC and Power over Ethernet (PoE) as parallel power sources. Barracuda Networks recommends to disable PoE if 12V DC is connected.

Power Supply is not included in packaging and needs to be ordered separately (BNGFSCAPSUa)

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

SC2 model	SC20	SC21	SC24a	SC25a
1x 1GbE WAN (PoE recipient)	Yes	Yes	Yes	Yes
3x 1GbE LAN (switch)	Yes	Yes	Yes	Yes
USB 2.0	Yes	Yes	Yes	Yes
USB OTG	Yes	Yes	Yes	Yes
Wi-Fi (AP or client mode)	No	Yes	No	Yes
3G/UMTS	No	No	Yes	Yes
4G/LTE Europe	No	No	Yes SN# <2246897	Yes SN# <2185632
4G/LTE Global (Universal)	No	No	Yes SN# >2246897	Yes SN# >2185632
DIN rail mount	Yes	Yes	Yes	

Wall mount	Yes	Yes	Yes	Yes
Metal Case (Magnetic mount)	Yes	Yes	Yes	Yes
Support for Modem M30/M40/M41	Yes	Yes	No	No

Interface	
WAN RJ45 Ethernet NICs	1 x 1 GbE WAN (PoE+ recipient)
LAN RJ45 Ethernet NICs	3 x 1 GbE LAN switch
USB 2.0	1
Micro-USB OTG	1
Wi-Fi 2.4GHz	-
Supported Cellular Networks	
UMTS	SC24a, SC25a
LTE	SC24a, SC25a
System	
CPU	ARM Cortex A7
RAM [GB]	1
Mass Storage	
Type	Micro SD
Size [GB]	16
Size, Weight, Dimensions	
Appliance weight [kg/lbs]	0.55/1.21
Carton weight with appliance [kg/lbs]	0.9/1.98
Appliance size: width x depth x height [in]	1.5 x 5.5 x 5.9
Appliance size: width x depth x height [mm]	37 x 140 x 150 (For more information, see Barracuda SC2 Measurements)
Carton size: width x depth x height [in]	2.6 x 9.1 x 10.8
Carton size: width x depth x height [mm]	65 x 230 x 275
Form factor	Compact, Din rail
Hardware	
Cooling	No fan
Environmental	
Noise emission [db/A]	n.a.
Operating temperature [°C/°F]	0 to +40 / +30 to +105
Storage temperature [°C°F]	-20 to +70 / -5 to +160
Operating humidity (non-condensing)	5% to 95%
MTBF (system)	
MTBF [yrs.]	> 5

Certifications & Compliance	
CE emissions	Yes
CE electrical safety	Yes
FCC Class A	Yes
Power & Efficiency	
Aux DC in voltage range (2 pin MC420 3.5mm)	12V - 57V
WAN Port PoE+ Voltage range	37V - 54V
Compatible PoE+ provider (PSE)	IEEE 802.3at (Type 2) PD
DO NOT USE 12V DC AND PoE ON WAN PORT AT THE SAME TIME	
Power Supply (optional)	
Power supply	Single, external
Power supply type	External
Power supply input voltage	100 - 240 V, AC
Power supply frequency [Hz]	50 - 60
Power supply output voltage	12V, DC
Wattage / max. power draw [W]	40
Max. power draw [Amps]	3.33
Max. heat dissipation [W]	40
Max. heat dissipation [BTU]	205
Energy efficiency [average]	> 83%
Packaging Content	
Appliance	Yes
Straight network cable	Yes
USB Type A to MicroUSB cable	Yes
External power supply	Optional
Quick start guide	Yes
1x Din rail bracket	Yes
1x two pin power connector	Yes
2x Wi-Fi antenna	SC21, SC25a
2x Cellular antenna with 1.5m cable	SC24a, SC25a

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.

Status LEDs

Your appliance is equipped with a variety of LEDs. The table below shows the different glowing states.

Color	Status	Meaning installation
All LEDs Off	Off	Appliance is powered off or installation has not initialized far enough for LED control when installation is started.
Power LED front side (blue)	Steady	Appliance is plugged in an powered on.
VPN LED front side (green)	Steady	Appliance has VPN connection to CloudGen Access Controller.
WAN LED front side (orange)	Steady	Appliance has a connection to the Internet.
WWAN (cellular) (yellow)	Blinking	Appliance has a connection to provider. Only for models with WWAN module.
PSU LEDs - (green)	Steady	PSU modules connected, power supply unit is up and running.

Wi-Fi (AP or Client mode)

Specification	SC21 / SC25a
Integrated Wi-Fi (IEEE 802.11b/g/n)	2.4GHz (2412MHz-2462MHz)
Certificates	FCC, CE, RED

4G/LTE

Specification	SC24a (SN#>2246897) / SC25a (SN#>2185632)
Frequencies (MHz)	• LTE FDD: B1, B3, B25(B2), B66(B4), B26(B5/B18/B19), B7, B8, B12(B17), B13, B14(FirstNet), B20, B28, B29, B30, B32, B71 • LTE TDD: B38, B39, B40, B41, B42, B43, B46, B48 (CBRS/OnGo) • 3G B1, B2, B4, B5(B19), B8, B9
Data Rate	• Data only module • LTE Cat. 18 3GPP Rel. 12 - Up to 1.2 Gbps DL /4x4 MIMO +3 CA • HSDPA Cat 24, HSUPA Cat 8
SIM Interface	3VDC 6 pin
Certificates	• FCC/IC, PTCRB 9 (North America) • FCC Part 96 CBRS (USA) • CE, GCF (Europe) • AU IC-Tick (Australia)

Antenna	
Interface	SMA
Frequency Range (MHz)	824 - 960; 1710 - 2170
Input Impedance (Ohm)	50
Gain (dBi)	3.5
Polarization Type	Linear, Vertical
Radiation Direction	Omni-directional
VSWR	<3.5
Length (mm)	111
Cable Length (mm)	1500

Figures

1. FSC2.0.top.png
2. SC2.front.png