

Thank you for purchasing the Barracuda 3G USB modem for Barracuda NextGen Firewall F that conveniently provides support for wireless broadband communication technologies. The modem supports bandwidths up to 21.1 Mbps and thus provides a cost effective alternative to xDSL and ISDN uplinks or failover lines.

Note: SIM card is not included and has to be obtained independently through your cell phone provider.

Packaging Content:

- One USB Modem
- One USB Cable
- Two External Antennas
- One Quick Start Guide

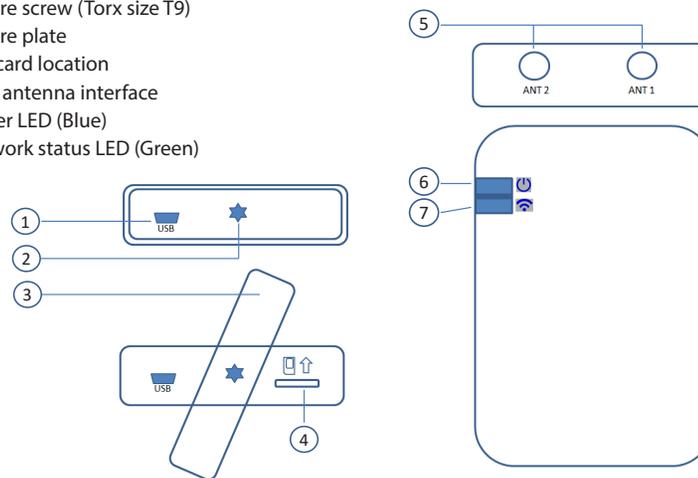
Please contact Barracuda Networks Technical Support if any of these items is missing.

Modem Specifications:

USB Modem	
Frequencies (MHz)	GSM 850/900/1800/1900 UMTS 800/850/900/1700/1900/2100
WCDMA/HSDPA/HSUPA Power Class	GSM/GPRS Power Class <ul style="list-style-type: none"> • Power Class 4 (33 dBm) for GSM/E-GSM bands • Power Class 1 (30 dBm) for DCS/PCS bands EDGE Power Class • Power Class E2 (27 dBm) for GSM/E-GSM bands • Power Class E2 (26 dBm) for DCS/PCS bands WCDMA/HSDPA/HSUPA Power Class <ul style="list-style-type: none"> • Power Class 3 (24 dBm) for WCDMA/HSDPA/HSUPA mode
Supported Data Transmission	HSUPA, HSDPA, 3G, UMTS, EDGE
SIM Interface	3VDC 6 pin
Power Supply	5 VDC via USB Interface
USB Interface	Micro USB 2.0
Dimensions (LxWxH mm)	77 x 54.5 x 20.8
Net Weight (g)	150
Operation Temperature	-10°C to +60°C
Certifications	FCC / IC / CE / C-Tick
Antenna	
Interface	SMA
Frequency Range (MHz)	824-960; 1710 - 2170
Input Impedence (Ohm)	50
Gain (dBi)	3.5
Polarization Type	Linear, Vertical
Radiation Direction	Omnidirectional
VSWR	<3.5
Length (mm)	111
Cable Length (mm)	1000

Overview:

1. USB Interface
2. Secure screw (Torx size T9)
3. Secure plate
4. SIM card location
5. SMA antenna interface
6. Power LED (Blue)
7. Network status LED (Green)



Status LED:

Your Barracuda 3G USB modem is equipped with one network status LED that indicates the operational state of the modem by changing between off, slow blinking, and fast blinking. The table below shows the different meanings of the different glowing states:

LED	State	Meaning
-	OFF	
GREEN	Cycle output ON - 100ms OFF - 2s	Registered 2G network
GREEN	Cycle output ON - OFF 50ms; 2 times OFF - 2s	Registered 3G network

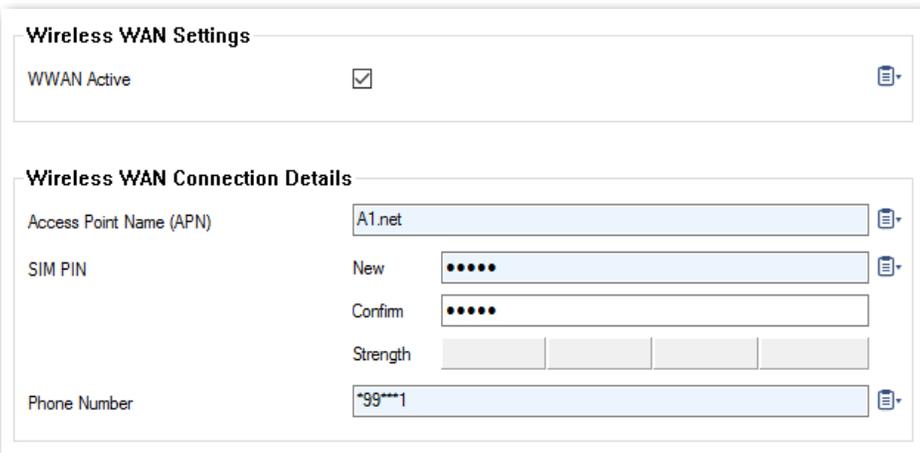
Getting Started

1. Open the secure plate with a T9 Torx screwdriver. Insert the micro SIM card as illustrated on the modem until it gets locked. To remove the micro SIM card, carefully press on the micro SIM card until it unlocks and slides out of the bay.

- Connect the modem to a free USB port on your Barracuda NextGen Firewall F by using the included USB extension cable.

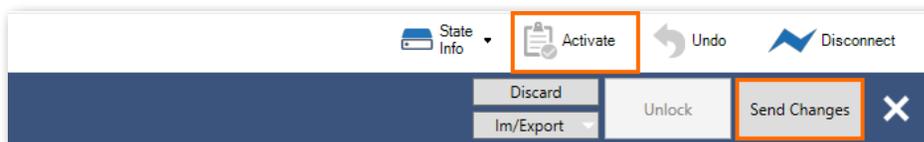
Note: The firewall appliance needs to be powered off, as otherwise the modem driver will not be initialized.

- Connect the external antennas to the ANT 1 and ANT 2 interfaces of the modem. The external antennas are equipped with a magnetic base thus allowing for convenient placement on racks or any other metal surfaces.
- Deploy the modem with a standard cap rail.
- Power on the Barracuda NextGen Firewall F and modify the WWAN network settings by navigating to **Configuration > Network > Wireless WAN**.
- Select the **WWAN Active** checkbox.
- Enter the **Access Point Name** of the provider (available from the provider).
- Enter the **SIM PIN** number (if PIN needed).
- Enter the **Phone Number** for dial-in (available from the provider).



- Commit Changes

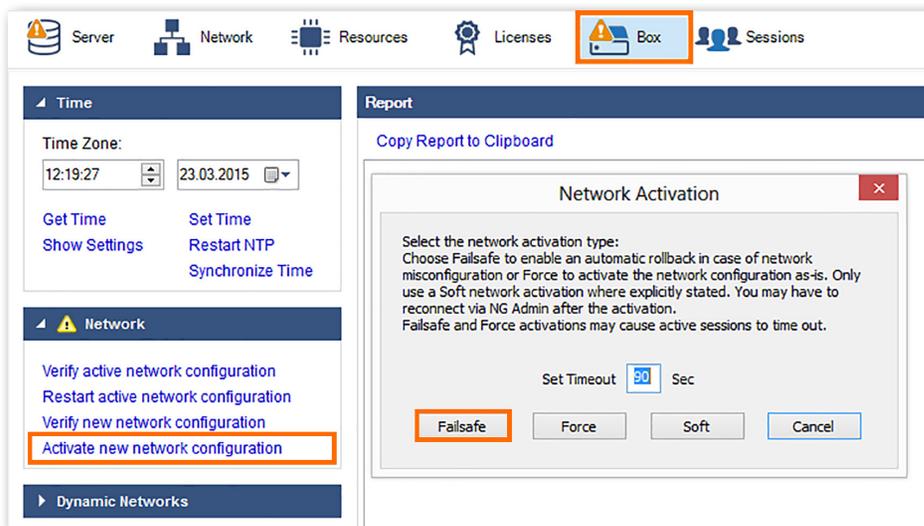
To commit all previously done configuration steps, the new configuration needs to be activated at the Barracuda NextGen Firewall. Click **Send Changes** followed by **Activate**.



- Network Activation

Go to **Control > Box** and click **Activate new network configuration** within the **Network** section. Click **Failsafe** in the appearing **Network Activation pop-up window**. Wait for the **Activation Succeeded** dialog, and then click **OK**.

Note: Due to network activation you may lose connection to the appliance. Select **Reconnect** (upper right) to reconnect to the appliance.



- Navigate to **Control > Network** and check the availability of the WWAN uplink (ppp5)

- In order to restart, switch-off, or stop the WWAN connections, navigate to **Control > Box > Dynamic Networks**.

For further details and product documentation, please visit: <https://campus.barracuda.com>