Barracuda 3G USB MODEM M12 - Quick Start Guide

Thank you for purchasing the Barracuda 3G USB modem for Barracuda NextGen Firewall FSC1 that conveniently provides support for wireless broadband communication using 3G/UMTS/HSD-PA/HSUPA technologies. The modem supports bandwidths up to 7.2 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
- One External Antenna
- One Quick Start Guide

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

Modem Specifications:

USB Modem:	
Frequencies (MHz)	GSM 850/900/1800/1900 UMT S850/1900/2100/ S2100
Output Power	Class4 (+33dBm ±2dB) for EGSM900 Class 1 (+30dBm ±2dB) for GSM1800 Class E2 (+27dBm ± 3dB) for GSM 900 8-PSK Class E2 (+26dBm +3 /-4dB) for GSM 1800 8-PSK Class 3 (+24dBm +1/-3dB) for UMTS 2100, WCDMA FDD Bdl
Supported Data Transmission	HSUPA, HSDPA, 3G, UMTS, EDGE
SIM Interface	3VDC 6 pin
Power Supply	5 VDC via USB Interface
USB Interface	Mini USB 2.0
Dimensions (LxWxH mm)	71 x 49 x 20
Net Weight (g)	150
Operation Temperature	-20 °C to +65 °C
Certifications	FCC, CE, ROHS
Antenna:	
Interface	SMA
Frequency Range (MHz)	800-2800
Input Impendence (Ohm)	50
Gain (dBi)	3.5
Polarization Type	Vertical
Radiation Direction	Omnidirectional
VSWR	<1.5
Max. Input Power (W)	50
Length (mm)	174
Cable Length (mm)	3000

Overview:

1. SIM Tray
2. SIM Tray Lock (open SIM Tray by pressing the lock with a pen)
3. USB Interface
4. SMA Antenna Interface
5. LED (green)
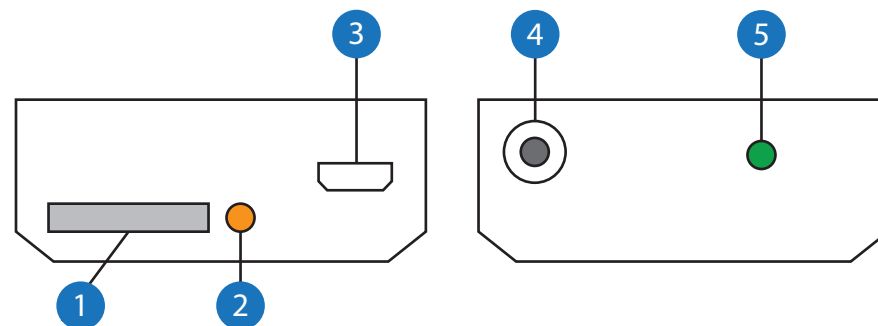
The Status LED:

Your Barracuda 3G USB modem is equipped with one 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:

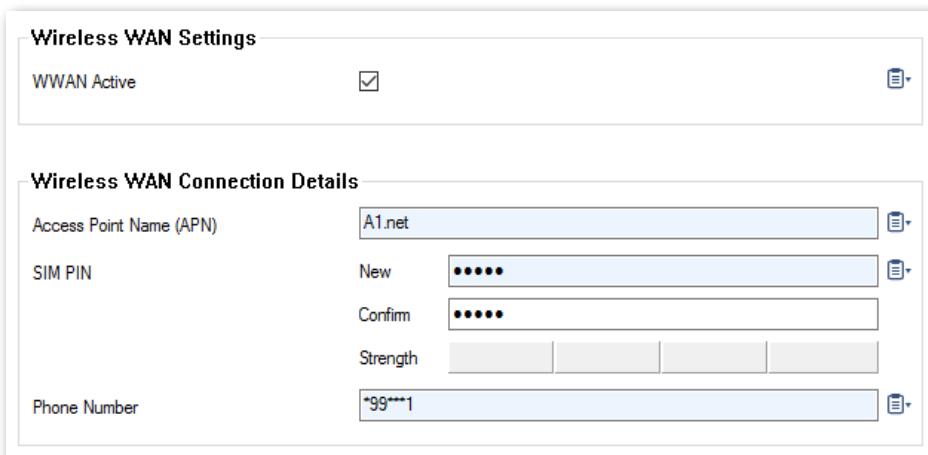| LED	State	Meaning
-	Off	SIM card missing, no PIN set, not in provider net, ERROR
GREEN	Blinking	Successful WAN connection with provider established
GREEN	Fast Blinking	Data transfer using Wireless WAN uplink

Getting Started

1. Open the SIM card tray by carefully pressing on the tray lock that is situated next to the tray, ideally by using a pen. Remove the SIM card tray and place the SIM card in the tray.

2. Connect the USB modem to a free USB port on your Barracuda NextGen Firewall FSC1 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.

3. Connect the external antenna to the SMA interface of the USB modem. The external antenna is equipped with a magnetic base thus allowing for convenient placement on racks or any other metal surfaces.

4. Place the USB modem. Ideally use the included Velcro tape for affixing the modem e.g. to the Barracuda NextGen Firewall appliance or deploy the modem with a standard cap rail.

5. Power on the Barracuda NextGen Firewall FSC1 and modify the WWAN network settings by navigating to **Config** > **Network** > **Wireless WAN**.

6. Select the **WWAN Active** checkbox.

7. Enter the **Access Point Name** of the provider (available from the provider).

8. Enter the **SIM PIN** number (if PIN needed).
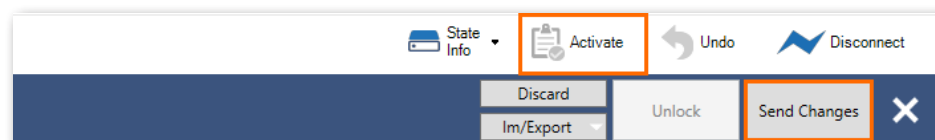

9. Enter the **Phone Number** for dial-in (available from the provider).

10. 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**.

11. 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.
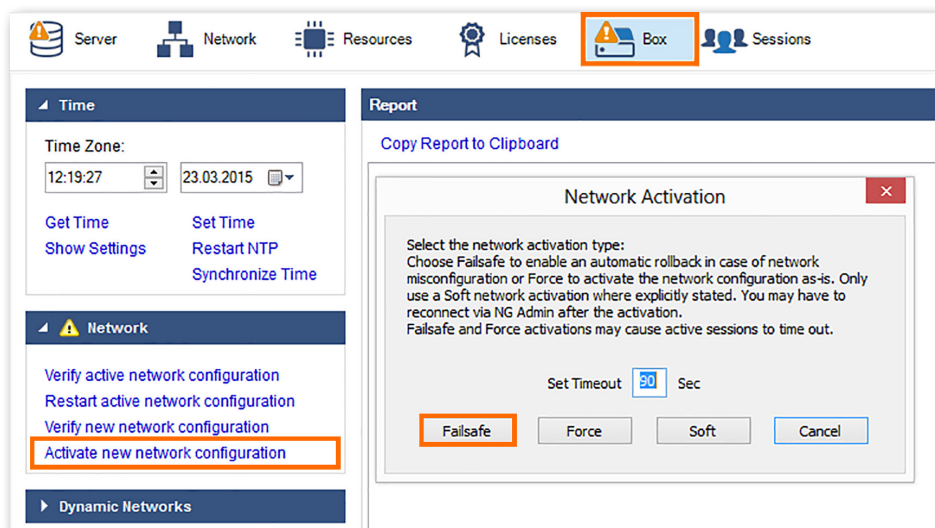
12. Navigate to **Control** > **Network** and check the availability of the WWAN uplink (ppp5)

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

For further details, please visit our tech-library under the following link:
https://campus.barracuda.com