

SmoothTalker

MOBILE M2M User Manual



Warranty:

2 Year on manufacturing defects. Does not include misuse or customer damage. Original Bill of Sale is required for all Warranty Claims

This is a CONSUMER device.

BEFORE USE, you MUST REGISTER THIS DEVICE with your wireless provider and have your provider's consent. Most wireless providers consent to the use of signal boosters. Some providers may not consent to the use of this device on their network. If you are unsure, contact your provider.

You MUST operate this device with approved antennas and cables as specified by the manufacturer. Antennas MUST be installed at least 20 cm (8 inches) from any person. You MUST cease operating this device immediately if requested by the FCC or a licensed wireless service provider.

WARNING. E911 location information may not be provided or may be inaccurate for calls served by using this device.

CONTENTS

All parts shown may or may not be included depending on the product part number purchased



12 volt install type



12 volt socket plug type



120 volt AC/DC

To comply with FCC rules, this booster must only be operated with cables, antennas and coupling devices that have been approved for use with this equipment

For specifications of any of the Smoothtalker FCC approved part numbers listed below visit smoothtalker.com

APPROVED EQUIPMENT LIST

Directional Antennas

SEMD1 series
SEMDA2 series

Thru-hole Antennas

SEM2TH series	SEM11TH series
SEM14TH series	SEM26TH series
SEM2THL series	SEM11THL series
SEM14THL series	SEM26THL series

Extension Cables

ACX100
ACX900
SEMRCBXmaXfe10
SEMRCBXmaXfe20
SEMRCBXmaXfe30
SEMRCBXmaXfe40
SEMRCBXmaXfe50
SEMRCBXmaXfe60

Magnetic base Antennas

SEMiniX1	SEM2M series
SEM11M series	SEM14M series
SEM2LGM series	SEM11LGM series
SEM14LGM series	SEM26LGM series
SEM2LGML series	SEM11LGML series
SEM14LGML series	SEM26LGML series

1) Installation & Assembly:

Connect the cellular device, the outside antenna and power supply to the booster. Please make sure to connect each item to the correct ports as indicated on the booster.

2) Placement

Connect the booster as shown in Fig. 1 and Fig. 2

Important:

Use only the power supply included with the booster. Connecting any other power supply at any time will result in damage to the booster and will void the warranty.

Do not turn on the power switch until ALL cables have been screwed or plugged into the booster or you can cause damage to the booster.



Fig. 1



Fig. 2

SPECIFICATIONS

Operational Bands	800MHz Cellular	1900MHz PCS
Maximum Radiated Power (EIRP)	29.9 dBm	29.9 dBm
Maximum Rated Power (conducted)	29 dBm	28 dBm
Gain	15 dB	
Impedance (input/output)	50 Ohms	
Power Supply	12 Volt DC or 120 Volt AC/DC	
Operating Temperature	-32C to +85C	
Antenna Connectors	MCT Male	
Dimensions	6.25x3.5x1.125 inches	
Weight	1.0 Lb	

Understanding the lights



Orange LED Lights (RX):

There are two orange LED lights, one for the 800Mhz cellular band and one for the 1900Mhz PCS band. LED ON state indicates that the RX (Receive Signal) function of the band is functioning normally. LED Off state indicates that the band is shut down.

Green LED Lights (TX):

There are two Green LED lights, one for the 800Mhz cellular band and one for the 1900Mhz PCS band. Solid ON state indicates that the TX (Transmit Signal) function of the indicated band is on and is at maximum gain. A Flashing Green LED indicates gain reduction in the indicated band. Each flash equals 3db reduction in gain. One flash represents a 3dB reduction, two flashes represents a 6dB reduction etc. until the total gain of the booster has been suppressed.

Causes of Flashing Green LED Lights:

1-If the outside antenna is located too close to the internal antenna or phone holder the booster will reduce its gain in order to suppress any oscillation (feedback loop) and the Green LED will flash. To achieve higer gain or max gain further separation of the inside and outside antennas is required.

2-If the booster is close to a cellular tower (strong cell tower signal) it will automatically reduce its gain to protect the network. This condition will change as the booster approaches or leaves a cellular tower.

NOTE: It is normal for the booster to be quite warm while the phone is in use state.

TECH SUPPORT: www.smoothtalker.com