

Mobile X6 4G LTE

Wireless Booster Extreme Power

 6 BAND
MULTI BAND

50dB

User Manual

USA

Cellular *RX/TX* **50 dB 6 BAND**
Signal Booster **MULTI BAND 50dB**

Wireless Booster Extreme Power

2G, 3G, 3G+, 4G, 4G+

GSM,HSPA,CDMA,LTE, LTE A

| | |
|------------|--------------|
| Band 12,17 | 700MHz Lower |
| Band 13 | 700MHz Upper |
| Band 5 | 850MHz |
| Band 4 | 1700/2100MHz |
| Band 2,25 | 1900MHz ext |



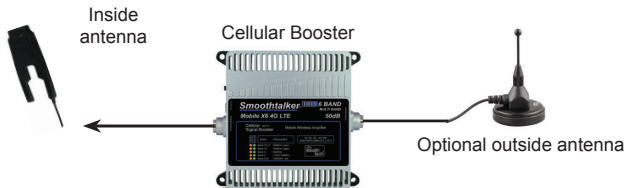
In 2001 SmoothTalker produced the first digital mobile cellular signal booster in North America with FCC and ICAN approval. We continue to lead with the most powerful and intelligent boosters in the world.

Our dynamic adaptive proprietary algorithms make them very network friendly. We call it STEALTH TECH technology.

**Boosts the outside signal into your vehicle
and the cell phone signal back to the tower.**

Smoothtalker.com

Contents



Optional Power Types



12 volt install type



12 volt socket plug type



120 volt AC/DC

All parts shown are not included in all kits.
Please check your model number for more details at smoothtalker.com

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

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.

Installation

Installation

1) Connect the outside antenna to the side of the booster marked as "outside antenna"

Connect the inside antenna to the side of the booster marked as "inside antenna"

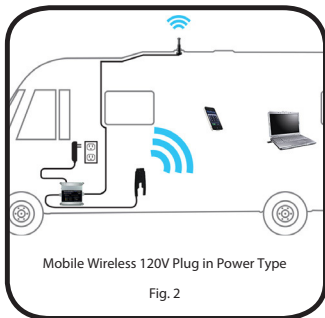
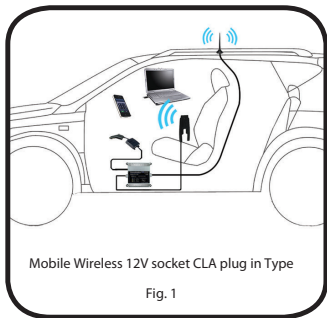
2) Placement

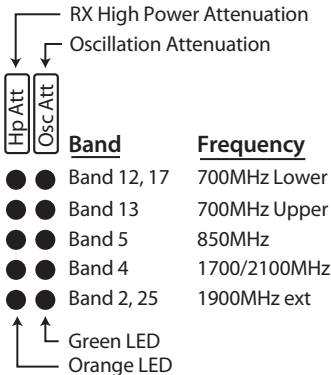
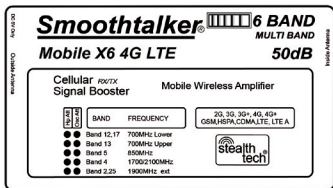
Place the outside antenna in the middle of the vehicle roof. If the vehicle has a sunroof please place the antenna on the roof towards the back window. Place the Patch (inside) antenna in desired location. For cars and trucks the console between the front seats is recommended.

Connect the booster as shown in Fig. 1 & 2 below.

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.

Applications





Understanding the lights

The “LEDS” on the face of the booster indicate operating gain state. In any given frequency band there is a Green and Orange LED which indicate the gain status of the band. When both of these LEDS are “SOLID ON” it means that the booster is operating normally and with full gain (No attenuation) in that band. If the booster has reduced its gain, one or both of the LEDS will indicate by flashing. (Per the chart on pg. 4)









Any reduction of gain will be due to either:

- A) High outside signal level (close to tower)
- B) Loop Oscillation due to the inside antenna (Patch antenna) and the outside antennas are located too close together.

When the booster is off it will be indicated as follows:

When inside and outside antennas are extremely close together the Green LED will fast flash and the Orange LED will turn off indicating that the booster is off due to loop oscillation.

LED Lights Status Explanation

| Attenuation (Att) Each flash indicates 3dB of gain reduction also known as gain attenuation. For example: three flashes equals 9dB of attenuation. | ORANGE LED RX High Power | GREEN LED Oscillation |
|---|--|--|
| Orange Solid ON = Full Gain - Green Solid ON = Full Gain |  SOLID ON |  SOLID ON |
| Orange Solid ON & Green Slow Flashing = Oscillation Att |  ON |  SLOW FLASHING |
| Orange Off & Green Fast Flashing = Oscillation Shutdown |  OFF |  FAST FLASHING |
| Orange Slow Flashing & Green Solid ON = RX High Power Att |  SLOW FLASHING |  ON/ |

What do the LED flashes mean?

**Each flash indicates 3dB of gain reduction also known as gain attenuation.
For example: three flashes equals 9dB of attenuation.**

Green LED indicates loop oscillation status. When flashing it means reduction of gain. To improve you need to spread the distance between the inside and outside antennas. If you spread them far enough away, the Green LED will become SOLID ON.

Orange LED indicates RX (outside signal strength) status. When flashing it means reduction of gain also known as attenuation of gain. You cannot prevent this condition. As you drive away from the nearby cell tower and get far enough away the flashing Orange will automatically stop flashing which indicates that the booster is no longer attenuated. As you approach another nearby cell tower the Orange may begin flashing again and will stop flashing as you get farther away. This is the normal operating process.

6 Band Wireless Kit Extreme Power

Typical Booster Kit

Model shown
BMUX650MSPC



Specifications Mobile X650 4G LTE

| | | | | | |
|-------------------|---|------------------|------------|------------------|-------------|
| MODULATIONS | 2G, 3G, 3G+, 4G, 4G+, GSM, HSPA, CDMA, LTE, LTE A | | | | |
| OPERATIONAL BANDS | Band 12/17 | Band 13 | Band 5 | Band 4 | Band 2/25 |
| FREQUENCIES | 700 MHz lower | 700 MHz upper | 850 MHz | 1700/2100 MHz | 1900 MHz |
| TX POWER | 1 watt EIRP | | | | |
| GAIN | 50 dB | | | | |
| POWER SUPPLY | 12V DC CLA OR 12V DC fused or 120V AC/DC | | | | |
| OPERATING TEMP | -22 F TO + 185 F | | | | |
| DIMENSIONS | L 4.72 xW 4.25 x H 1.25 (inch) | | | | |
| WEIGHT | 1.2 lb | | | | |

Approved Equipment List

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

FCC requirements prohibit the use of unauthorized Antennas, Cables, and/or Coupling devices.

| Antennas | |
|------------------|------------------|
| SMRP1X | SRMP1XL |
| SEM2TH series | SEM11TH series |
| SEM14TH series | SEM26TH series |
| SEM2THL series | SEM11THL series |
| SEM14THL series | SEM26THL series |
| SEMD1 series | SEMO series |
| SEMDA2 series | SEMDP1 series |
| SEMiniX1 | SEM2M series |
| SEM11M series | SEM14M series |
| SEM2LGM series | SEM11LGM series |
| SEM14LGM series | SEM26LGM series |
| SEM2LGML series | SEM11LGML series |
| SEM14LGML series | SEM26LGML series |
| Cables | |
| ACX100 | |
| ACX900 | |
| CBXmaXfe10 | CBXmaXfe40 |
| CBXmaXfe20 | CBXmaXfe50 |
| CBXmaXfe30 | CBXmaXfe60 |

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.

Operational description:

To comply with FCC NPS (Network Protection Standard) requirements: NPS and other compliance/safeguard features for AGC and anti-oscillation have been implemented. NPS and other compliance/safeguard features are defaulted to be "On" (in operation). NPS and other compliance/safeguard features can not be field reconfigured, disabled or removed. This booster is not user programmable, does not need fine tuning or adjustment, does not require professional installation.

Contact information for Booster registration:

Some providers have set up web-sites for booster registration. If you don't see your provider on this list, please contact your provider for information on how to register your booster.

AT&T: <https://securec45.securewebsession.com/attsignalbooster.com/>

Verizon: <http://www.verizonwireless.com/solutions-and-services/accessories/register-signal-booster/>

T-mobile: <https://www.signalboosterregistration.com/>

Sprint: https://www.sprint.com/legal/fcc_boosters.html

Us Cellular: <http://www.uscellular.com/uscellular/support/fcc-booster-registration.jsp>

Warranty:

2 Year on manufacturing defects. Does not include misuse or customer damage.

Original Bill of Sale is required for all Warranty Claims



Automatic power control protects the Cellular Network

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