

KR1801

Mobile Cell Phone Booster(meet FCC new standard)

Technical Sheet

Overview

The KR1801 Quint booster is designed for professional installation to provide signal coverage in buildings up to 100,000 square feet. The KR1801 Quint boosts signals on 800 MHz, 1900MHz, AWS and both AT&T and Verizon 700 MHz 4G networks. The KR1801 Quint is the most affordable five-band Signal Booster available. The KR1801 Quint control knobs allow the installer to optimize the gain on each of the frequency bands.



The KR1801 Quint delivers up to 85 dB of gain and supports CDMA, GSM, EVDO, LTE, HSPA+ and WCDMA technologies. It can be paired with an Outside Directional Antennas and a variety of inside Antennas to create a custom Signal Booster system. This unit features cell tower protection technologies refined over more than a decade of research and development.

Features

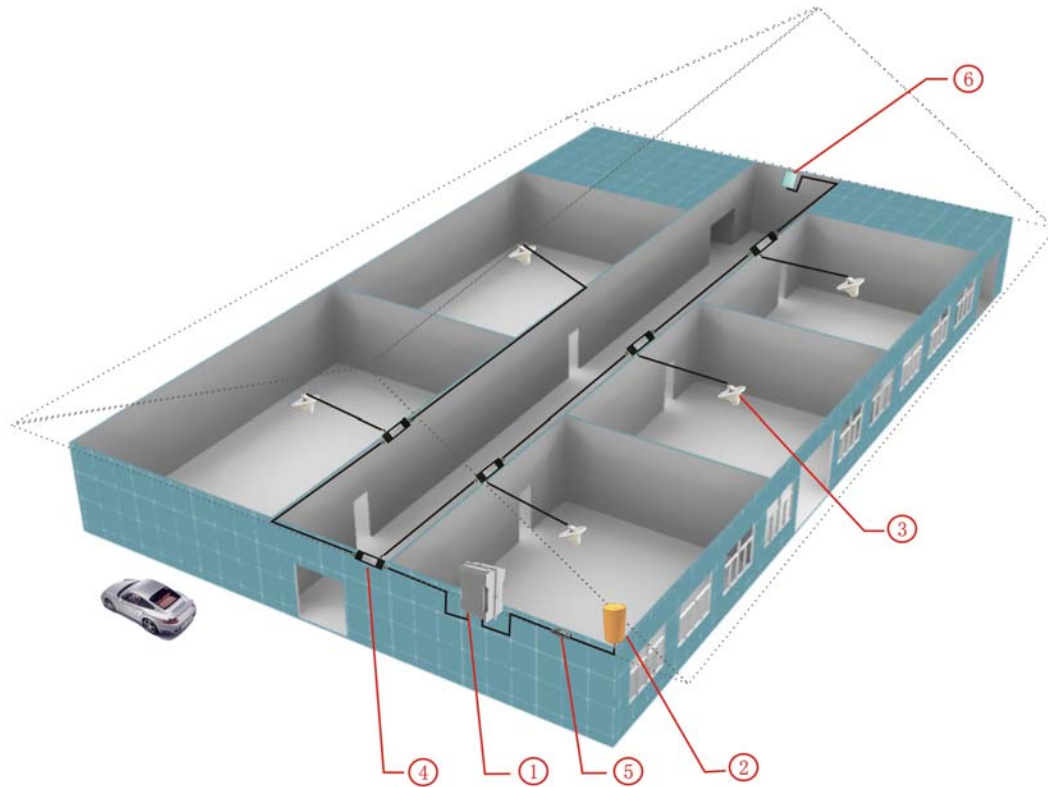
- Greatly reduces dropped calls, extends signal range, and increases data rates
- No physical connection to your cell phone or data card
- Allows multiple phones and cellular data cards to be used simultaneously
- Oscillation (or interference) detection and automatic shutdown with auto reset
- Overload protection circuit – protects cell towers from being overloaded
- Amplifies signals both to and from the cell tower
- Antenna sold separately. See Options
- Provides up to 100,000 square feet of boosted signal coverage
- Boosts signals on 800 MHz, 1900MHz, AWS and both AT&T and Verizon 700 MHz 4G networks.
- Supports CDMA, GSM, EVDO, LTE, HSPA+ and WCDMA technologies
- Most affordable five-band booster available
- Compact Design
- Push button controls
- Optimization for each of the five frequency bands
- Cell site protection technology
- FCC and IC type accepted



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Building Use - Connecting & Using the Booster



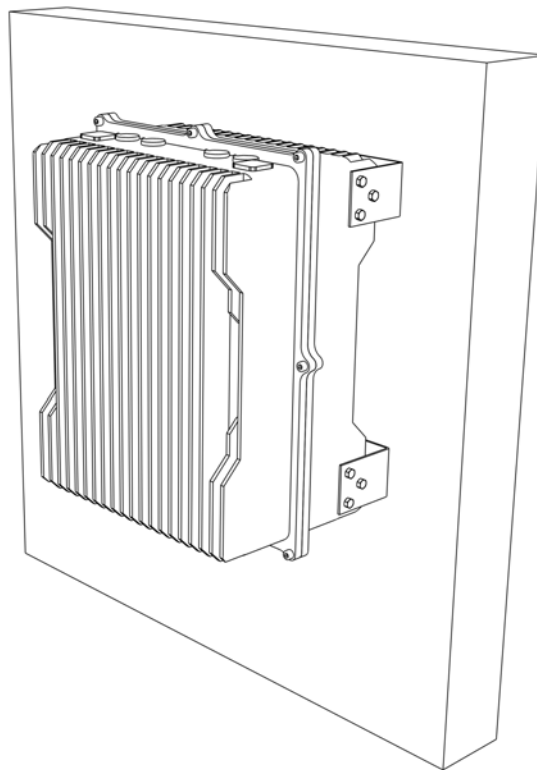
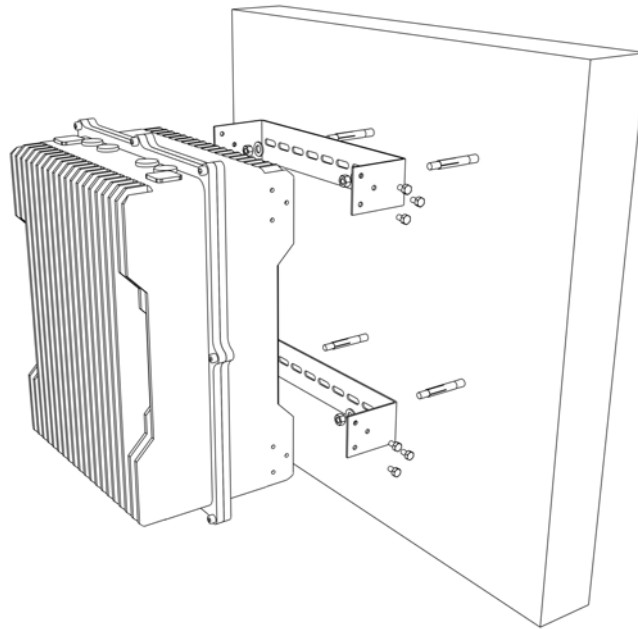
No.	name
①	KR1801 Booster
②	Outdoor omni directional antenna
③	Indoor dome ceiling mount antenna
④	Coupler
⑤	Lightning surge protector
⑥	Indoor panel antenna



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1. Mounting booster: Determine the location where your booster will be placed:
 - Select a location to install the amplifier near the outdoor antenna
 - The amplifier makes the waterproof IP65,
 - Select a location to install the amplifier away from heat, direct sunshine.
 - It is important to have adequate air ventilation. Maintain at least 6 inches of clearance from surrounding objects.

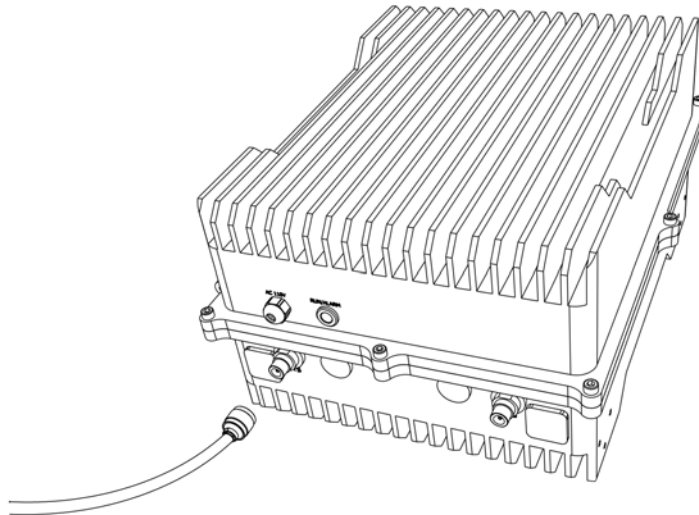


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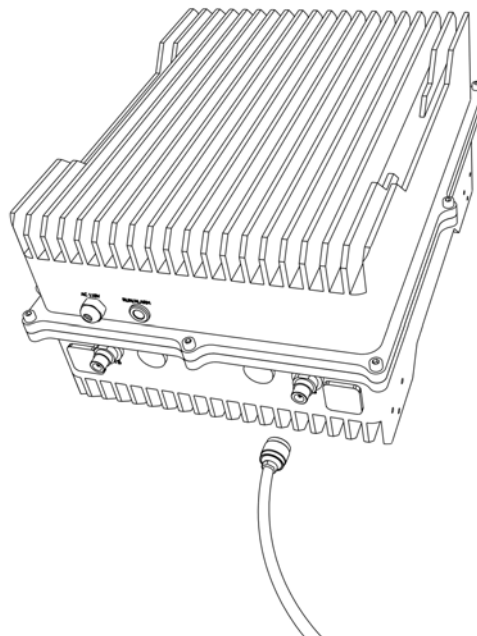
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2. Connect the Outside Antenna: An omni directional antenna is for outdoor use only. Select an outside mounting location. For best performance, keep the antenna on top of the building. The outside antenna should be located in an area with at least 30 meters of space on all sides that is free of obstructions and other radiating elements such as a radio antenna. Screw the outside antenna to the outdoor connector of the booster, and then tighten it until snug. Do not over-tighten.

WARNING: The outside antenna must not be co-located or operating in conjunction with any other antenna or booster.



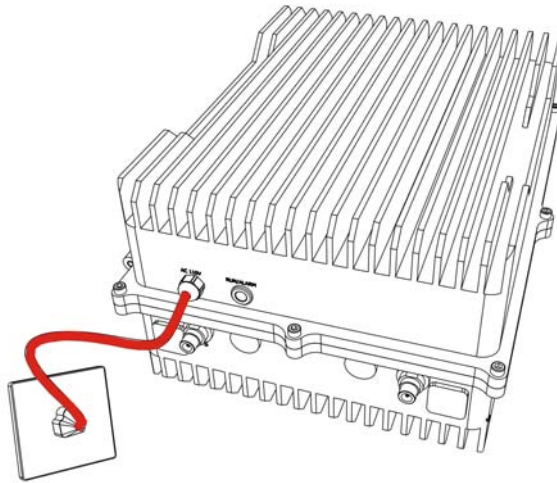
3. Connect the Inside Antenna: Ceiling mount or panel antennas are intended for indoor use. Do not mount on a surface within 1 meter of metal. Screw the distribute cable to the indoor connector on the booster. This booster is designed to be used while the cell phone is in a cradle or held free.



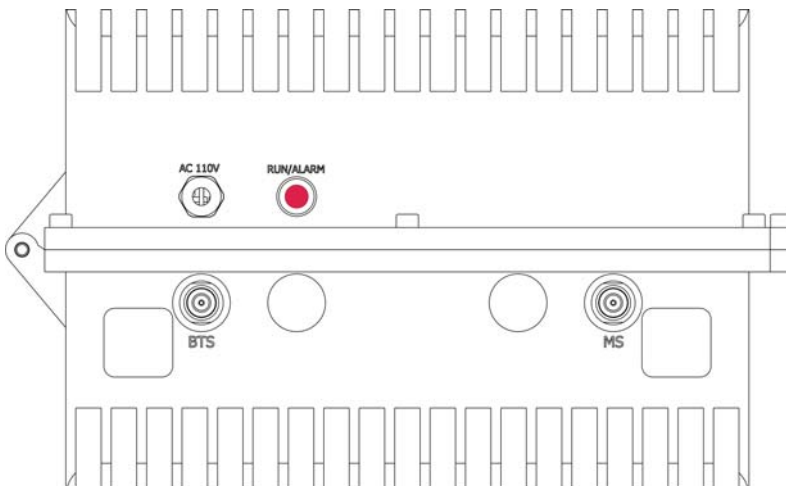
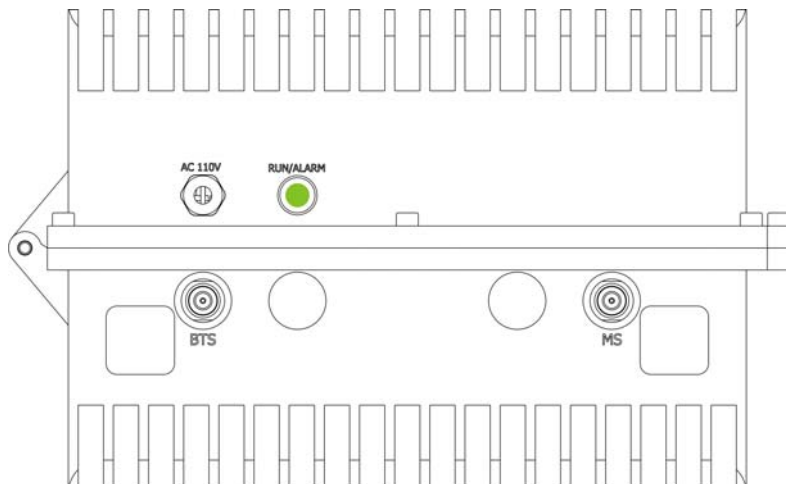
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4. Connect the Power Cord: Connect the AC power to the booster(110V,AC). Verify that all of the connections to the booster are tight and secure.



5. When booster is on, the green LED light will glow, indicating that the booster is ready to use. When there is any alert, the red LED light will flash.



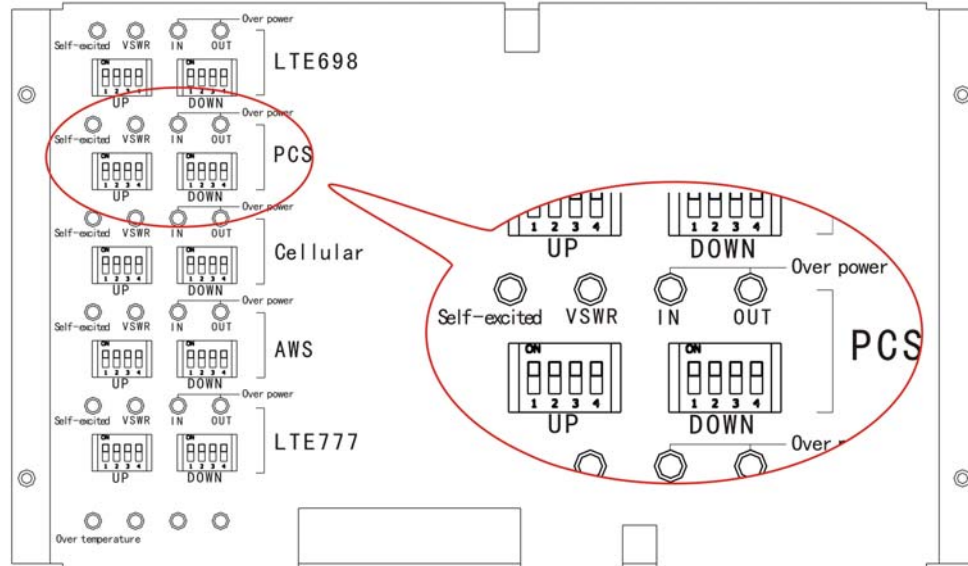
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Using the Booster

Step 1: When you receive the booster, the switcher should be set at lowest gain.

There are five bands and each band have two switcher for up and down link. The highest gain will be 85dB, and there is 15dB gain control by the switcher. So the lowest gain will be 70dB.



Step 2: ALERT Light: After turning on the booster, the Alert lights will flash for 1 second on each band. This is to let you know that each band is activated. There are four types alert for each band: Input and output overpower, self-excited, VSWR. And there is one main alert for booster, over temperature.

Step 3: If the ALERT lights continue to blink after the initial activation period, switch down the dial by 10dB, or for example, from 85 to 75. If the ALERT light(s) continue to flash, the booster will automatic shut down, then restart after 30 seconds.

NOTE: During this process of adjusting dBs for booster, continually monitor the bars on your cell phone to see if the reception has improved or has decreased to its original setting before purchasing or installing the booster.

WARNING: Never operate the booster with the red light on.



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Troubleshooting

If the booster interferes with your radio or other electronic receivers, move the booster further away from those devices.

Automat down

If equipped the Force-5 amplifier includes an automatic shutdown feature that works in the following sequence:

1. When oscillation is detected in the uplink or downlink, the appropriate Warning light will begin flashing red and the Power light remains green.
2. If the problem is not resolved, the affected side will shut down for 30 seconds.
3. The amplifier will wake back up. When this occurs, the power light will be green. If oscillation- resumes, the lights will flash as previously
4. Described. These 30-second cycles will continue for 15 minutes or until the problem is resold.

Specifications

Frequency (MHz)		Cellular	PCS	AWS	700	700
	Uplink	824-849	1850-1910	1710-1755	698-716	777-787
	Downlink	869-894	1930-1990	2110-2155	728-746	746-756
Output power	30±2dBm (per band) (Uplink)/20±2dBm (per band) (Downlink)					
Gain	82±2dBm(Uplink)/85±2dBm(Downlink)					
Noise figure	<8dB					
In-band Flatness	<10dB					
Weight	20Kg					
VSWR	≦ 2.0					
Gain adjustment	20dB(in 1dB step)					
Impedance	50 ohm					
Operating temperature	-25° ~60°					
Current	≦ 3A(110V AC)					
Dimension(inches)	5.5*4.8*0.9					



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