

# User Manual

For M2M

M24G-6SE-B02

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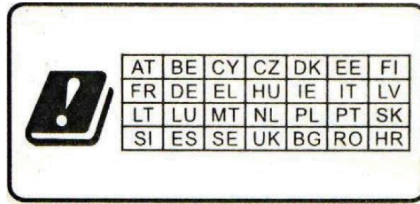
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# Usage and Installation Restrictions



Signal booster devices for GSM 900 MHz, NR 700MHz, GSM 900 / UMTS 1800 MHz, GSM 900 /UMTS 2100 MHz and 2600 MHz may only be installed by GSM / UMTS mobile network operators, holders of the corresponding licenses and in each case within the frequencies assigned to them, since they are broadband amplifiers acts.











The new HiBoost generations are self -regulating and switch themselves off in critical situations because they are equipped with C.A.S.(automatic shutdown control). If installed incorrectly, these systems can cause serious disruptions to mobile network operators, with legal and economic consequences for the owner of the kit and the installer who installed the antennas.

Huaptec Telecom GmbH assumes no liability for incorrect installation by inexperienced and unqualified personnel or in any case by personnel without the necessary equipment and license.

Furthermore, Huaptec Telecom GmbH also assumes no liability for improper use of the field expansion kits due to incorrect positioning and alignment of the external and internal antennas, which can cause problems for other users or disruptions to mobile network operators and providers.

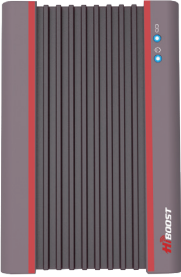
## Safety Warnings

Users must follow the principles stated below:

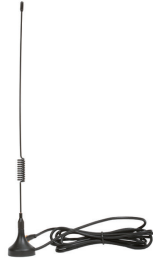
-  The booster should follow system requirements of mobile signal enhancement, assure good grounding and lightning protection.
-  Booster's power supply voltage should meet the standards of security requirements;
-  Any operation should be carried out only after cutting off power in advance. Only the professional user is authorized for the operation.
-  Do not dismantle the machine, maintain or displace accessories by yourself. In this way, the equipment can be damaged and you can even get an electric shock.
-  Do not open the booster, touch the module of booster, or open the cover of module to touch the electronic component. The components will be damaged due to electrostatic.
-  Keep away from heating equipment, because the booster will dissipate heat during working. And do not cover booster with anything that influences heat-dissipation.
-  The device has a plug connection, the socket must be close to the device and accessible.
-  During the transportation and storage process, the device should avoid the humid environment, prevent violent impact and avoid strong vibration.
-  Operating Temperature range is -10 - +55 degrees Celsius.
-  The Body Separation distance is 50cm by using the procedure of MPE calculation.

# Package Content

## M24G-6SE-B02



Booster



Outside Omni-Directional Antenna



Inside 3.3ft Cable



DC Power Supply



Other Accessories

# Introduction

Thank you for choosing the HiBoost M24G-6SE-B02 Booster! Our advanced M2M signal booster is meticulously designed to enhance cellular reception in Wireless Alarm Panels, ATMs, Vending Machines, Lotto Machines, Digital Signage, Remote Monitoring.

HiBoost's exclusive cloud-based Signal Supervisor mobile application enables users to remotely monitor the real-time status of the M24G-6SE-B02 booster from any mobile device, anytime and anywhere.

If there are any issues while installing a HiBoost cell phone signal booster, please contact the HiBoost technical support team through the following options:

**Phone:** +44 20 3239 5808

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**Website:** eu.hiboost.com

# APP Introduction

The SignalSupervisor app lets users view supported frequency bands and their gain power information, ensuring optimal booster configuration. It also offers installation assistance for quick and accurate setup of the signal booster.

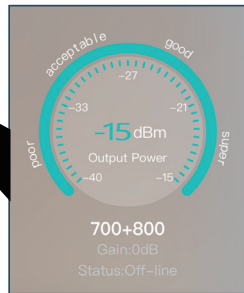


## 1.1 Function

-  Remote Monitoring: View device status in real-time and remotely switch frequency
-  Installation Assistance: Maximize device effectiveness by adjusting indoor and outdoor antennas based on output power changes.
-  Community Interaction: Share user experiences, post product reviews, and engage in interest group discussions.
-  Documentation Access: Access product specifications and installation videos for corresponding products (excluding industrial products).

## 1.2 Device Details

On the device details page of the app, users can view the supported frequency bands, gain, output power parameters, and check the device's usage status.



Note: The SignalSupervisor app strictly protects user privacy and does not collect any personal information. It is solely used for viewing device status, assisting with installation, and obtaining technical support, without accessing any personal information from users, ensuring the security and confidentiality of user data.

**Gain:** Refers to the degree to which the device amplifies the signal. The higher the gain, the better the signal transmission distance and quality.

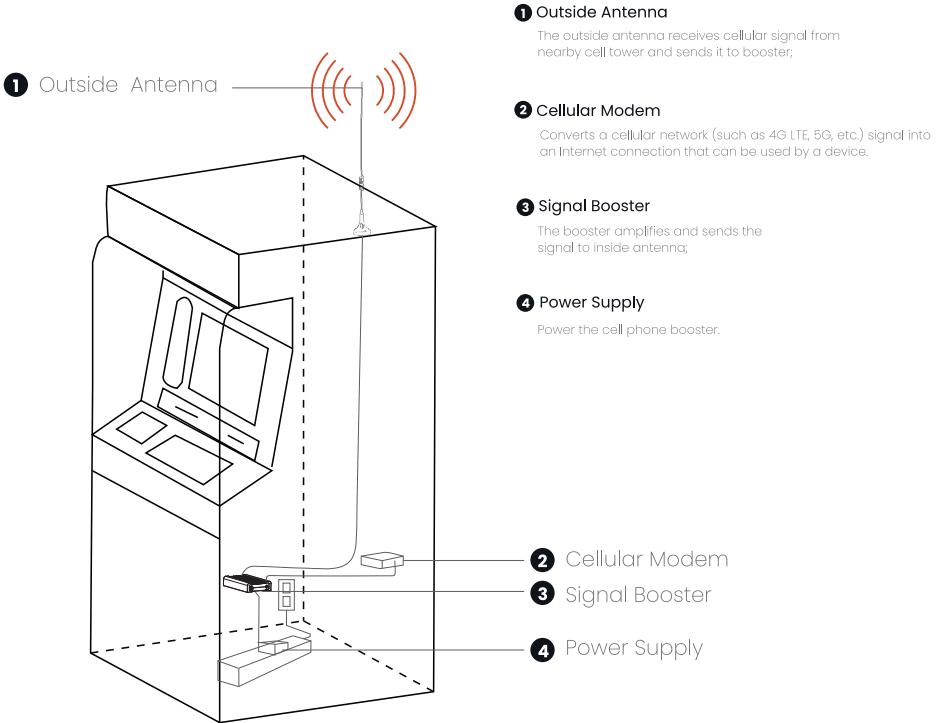
**Output Power:** Refers to the size of the signal coverage area. The higher the output power, the greater the coverage area and signal strength.

**700+800:** This refers to the frequency band used by the repeater station. For more details, please refer to P07.

**Coverage Performance:** In the app, "Good" indicates that the current repeater station's coverage performance is satisfactory, with strong and stable signal; "Super" indicates that the coverage performance is somewhat lacking and may require adjustment or optimization to improve signal quality. For more information, please refer to P07.

# How HiBoost booster works

## M24G-6SE-B02



## How to Install the M2M Booster

- 1. Outside Antenna Placement:** Mount the Outside Antenna on top of a metal structure that is free from obstructions and at least 12 inches away from any other antennas.
- 2. Booster Placement:** Choose a location for the Signal Booster that is away from excessive heat, direct sunlight, moisture, and ensures proper ventilation.
- 3. Route & Connect Antenna to Booster:** Run the Outside Antenna Cable to the Signal Booster and attach it to the connector labeled "Outside Antenna." Tighten by hand only.
- 4. Connect Device to Booster:** Connect the provided cable to your cellular device (an adapter may be required) and then to the connector labeled "Data Device" on the Signal Booster. Tighten by hand only.
- 5. Power Up the Booster:** Plug the Power Supply into an outlet and connect it to the end of the booster labeled "POWER."

## Application Scenario



The HiBoost M24G-6SE-B02 is the top choice for enhancing 5G, 4G, and LTE cellular signals for M2M and IoT devices. Regardless of the frequency, it minimizes lag, prevents dropped transactions, and improves customer satisfaction.



Boost low-band 5G and 4G signals for a wide range of IoT devices, such as:

- Cellular routers and modems
- Security systems
- Vending machines
- ATMs
- EV charging stations
- And more

If you have any of these devices and experience issues with maintaining a stable cellular signal, the M24G-6SE-B02 is the solution you need.



# Troubleshooting Guide

## LED STATUS INDICATORS

Bluetooth LED	solid blue	bluetooth disconnected
	Blue flashes every second	bluetooth connected
Wi-Fi LED	solid blue	wifi disconnected
	slow flashing blue	wifi connected

### Common Issues

### Troubleshooting Instructions

The M2M booster is installed but there's still no signal	Check to see if the M2M is started. Double check connections to make sure none are loose.
The signal is not stable after turning on the booster power	Check that the outside signal is stable by referring to your mobile device and checking your coverage.
There is No Power	Check that the booster is turned on and the DC power outlet is plugged into the DC 12V port.

Gauge	Band	Uplink	Downlink
NR700	N28	703~733MHz	758~788MHz
LTE800	B20	832~862MHz	791~821MHz
EGSM900	B8	880~915MHz	925~960MHz
DCS1800	B3	1710~1785MHz	1805~1880MHz
WCDMA2100	B1	1920~1980MHz	1805~1880MHz
LTE2600	B7	2500~2570MHz	2620~2690MHz

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# Technical Specifications

## Specification

RF Parameter		Uplink	Downlink
Frequency Band	NR700 (N28)	703~733MHz	758~788MHz
	LTE800 (B20)	832~862MHz	791~821MHz
	EGSM900 (B8)	880~915MHz	925~960MHz
	DCS1800 (B3)	1710~1785MHz	1805~1880MHz
	WCDMA2100 (B1)	1920~1980MHz	1805~1880MHz
	LTE2600 (B7)	2500~2570MHz	2620~2690MHz
Max.Gain			15dB
Max.OutputPower		24dBm	-30~-15dBm
Electrical Parameter			
Power Supply	In: AC90~265V, 45~60Hz; Output: DC12V/3A		
Power Consumption	≤15W		
Input & Output Impedance	50 ohm		
Mechanical Parameter			
I/O Port Type	Outdoor: SMB-F; Indoor: SMB-F*2		
Environment Parameter			
Operating Temperature	-10°C~+55°C		
Storage Temperature	-25°C~+80°C		
Environment Class	IP40		

# Return and Warranty Policies

## Return and Warranty Policies

**60-Day Money-Back Guarantee:** If for any reason the performance of any product is not acceptable, the product may be returned to the reseller within 60 days with a proof of purchase. Please contact the HiBoost customer support.

**2-Year Warranty:** HiBoost signal boosters and kits are warranted for 2 years. Huaptec offers two options for the products under warranty: repair or replace.

This warranty does not apply to any signal boosters or kits determined by HiBoost to have been subjected to tampering, misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties.

All HiBoost products that are packaged with other HiBoost accessory products are intended for resale and use as a single integrated system. Such product kits are required to be sold to an end-user or a subsequent reseller as packaged.