

***Qoltec***<sup>®</sup>

**Model: 57021**

# **INSTRUCTION MANUAL**

**4G LTE antenna | 18 dBi | External**

## **INTRODUCTION**

Thank you for purchasing this 18 dBi gain 4G LTE antenna with SMA connector. This antenna is designed to increase signal quality and provide better internet connection on 4G LTE networks. Please read the instruction manual below before installation and use.

## **ABOUT THE PRODUCT**

With a gain of 18 dBi, the 4G LTE antenna is a high-performance device designed to improve signal quality and provide a stable connection on 4G LTE networks. With a wide operating bandwidth (600-2700 MHz), the antenna can operate effectively in a variety of network conditions, delivering improved data throughput and coverage. Equipped with an SMA connector and long cable, it is easy to connect to LTE modems or routers. The robust design and the included mounting kit allow the antenna to be fixed stably and securely

## **SAFETY INSTRUCTIONS**

Following the above rules will help to avoid hazards associated with the use of the antenna and ensure long-term and safe use of the device.

1. Do not use the antenna in a manner incompatible with its intended use.
2. Installation of the antenna should be carried out in accordance with the operating instructions. Incorrect installation may lead to damage to the unit or injury.
3. Make sure the antenna is mounted on a stable and solid surface to prevent it from falling or moving.
4. Avoid mounting the antenna near high voltage lines. Always maintain an adequate distance from power sources.
5. Connecting the antenna to the receiving equipment should be done with the power off.
6. The antenna is resistant to various weather conditions, but it is recommended to regularly check the stability of the mount after strong winds or storms.
7. In the event of extremely heavy storms or downpours, it is recommended to temporarily disconnect the antenna to avoid potential damage.
8. The antenna structure must not be tampered with or modified in any way.

9. Ensure that children do not have access to the antenna and its mounting components.
10. Regularly clean the antenna of dust and other debris using a damp cloth. Avoid using aggressive chemicals.
11. Do not attempt to repair a damaged antenna yourself.
12. If any damage is detected, stop using the antenna and contact customer service.

## TECHNICAL SPECIFICATIONS

Operating band:	600-2700 MHz
Profit:	18 dBi
Impedance:	50 $\Omega$
Power:	50W
VSWR:	$\leq 2.0$
Polarity:	vertical
Connector:	SMA female
Cable length:	3m RG58

## ANTENNA INSTALLATION

The contents of the assembly kit are shown *in Figure 1 in the appendix*

1. Attach the mounting bracket to the antenna using screws and nuts
2. Use screws, washers and wall plugs to secure the antenna to the wall or mast.
3. Fix the bracket to the mast using U-bolts and nuts.
4. Make sure the antenna is firmly fixed and pointed towards the nearest operator's transmission tower.

## CABLE CONNECTION

1. Connect the connector cable to the antenna's SMA connector.
2. Connect the other end of the cable to your LTE modem or router.

## DEVICE CONFIGURATION

1. Switch on the modem or LTE router and configure it according to the manufacturer's instructions.
2. Ensure that the antenna is working properly and that the signal quality is optimal.

## PROBLEM SOLVING

No signal	Make sure the antenna is properly connected to the modem/router and pointed towards the transmitting tower.
Weak signal	Check that there are no obstacles in the signal's path, such as trees or buildings.
Inability to connect to the Internet	Contact your network operator to ensure that the service is active.

## CONSERVATION

1. Regularly check the stability of the antenna mount, especially after a strong wind or storm.
2. If the signal is weak, try repositioning the antenna by pointing it at other broadcast towers.
3. Cleaning of the antenna can be carried out with a damp cloth, avoiding aggressive chemicals.

## UTILISATION

This product is subject to the regulations for the disposal of electrical and electronic equipment (WEEE). It must not be disposed of with municipal waste. If you have any questions about disposal, please contact the manufacturer or an authorised service centre.

## INFORMATION ON WARRANTY AND SERVICING

The product is covered by a 24-month manufacturer's warranty from the date of purchase. The warranty covers any defects in materials and workmanship. Please contact our service department if you have any problems with your device to ensure prompt and professional service. The warranty does not cover damage resulting from misuse, falls, mechanical damage, unauthorised repairs or disassembly attempts.



**ATTACHMENT**

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