

# Delock Multiband LTE UMTS GSM GPS Antenna 3 x SMA male omnidirectional roof mount black outdoor

## Description

This Delock multi-band antenna has three physically separate transmitting and receiving units. Two PIFA antennas, respectively, for LTE and GSM/UMTS are responsible for sending and receiving in these areas. The GPS patch antenna receives the signals of the Global Navigation Satellite System GPS.

Due to its outdoor features, the multiband antenna is well suitable for usage in harsh areas such as transportation, forestry, agriculture, construction and in the maritime sector. It is waterproof, shock resistant and can be used in the extended temperature range.



**Item no. 12455**

EAN: 4043619124558

Country of origin: China

Package: White Box

## Technical details

- Connectors: 3 x SMA male
- **LTE:**
  - Frequency range:
    - 0,698 - 0,960 GHz
    - 1,710 - 2,700 GHz
  - GSM / UMTS / ZigBee / Z-Wave / WLAN 2,4 GHz / Bluetooth
  - Antenna gain: 2 dBi
  - Impedance: 50 Ohm
  - VSWR: 2,5
  - Polarisation: linear
  - Cable: coaxial
  - Cable type: RG-58/U
  - Cable diameter: ca. 4,95 mm
  - Cable attenuation: 0,6 dBi @ 1 GHz per meter
- **GSM UMTS:**
  - Frequency range:
    - 0,824 - 0,960 GHz
    - 1,710 - 2,170 GHz
  - GSM / UMTS / Z-Wave
  - Antenna gain: 2 dBi
  - Impedance: 50 Ohm
  - VSWR: 2,5
  - Polarisation: linear

Cable: coaxial  
Cable type: RG-58/U  
Cable diameter: ca. 4,95 mm  
Cable attenuation: 0,6 dBi @ 1 GHz per meter

- **GPS:**

Frequency range:  
GPS: L1, 1,57542 GHz  
Antenna gain: 28 dBi  
Impedance: 50 Ohm  
VSWR: 2,5  
Polarisation: RHCP  
Cable: coaxial  
Cable type: RG-174  
Cable diameter: ca. 2,7 mm  
Cable attenuation: 1,5 dB @ 1,5 GHz per meter  
Operating voltage: 2,2 - 5,0 V  
Current consumption: 5 - 15 mA

- **LNA GPS:**

Frequency range:  
GPS: L1, 1,57542 GHz  
Antenna gain: 28 dBi  
VSWR: 2,0  
Impedance: 50 Ohm  
Cable: coaxial  
Cable type: RG-174  
Cable diameter: ca. 2,7 mm  
Cable attenuation: 1,5 dB @ 1,5 GHz per meter  
Operatin voltage: 2,2 - 5,0 V  
Current consumption: 5 - 15 mA

- Screw-on mounting
- Operating temperature: -40°C ~ 85°C
- Housing material: ABS
- Colour: black
- Protection class: IP67
- Cable colour: black
- Cable length incl. connectors: ca. 3 m
- Dimensions (DxH): ca. 143,6 x 65 mm
- Mounting hole diameter: 30 mm

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## System requirements

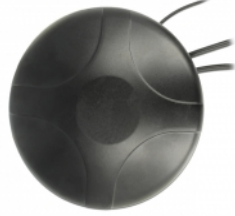
- Device with free SMA connectors

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## Package content

- Multiband antenna
- Nut

## Images



## General

Mounting type:	Screw mounting
Protection category:	IP67
Suitable for outdoor:	yes

## Interface

connector:	3 x SMA
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## Technical characteristics

Operating voltage:	2.2 - 5.0 V
Frequency range:	824 MHz - 960 MHz 1.57542 GHz 1.71 - 2.17 GHz 1.71 GHz - 2.70 GHz 698 MHz - 960 MHz
Gain:	4 dBi 28 dBi 3 dBi
Impedance:	50 Ω
Polarisation:	RHCP linear vertical
Power handling:	5 W 1 W
Current consumption:	5 - 15 mA
VSWR:	2.5 2.0

## Physical characteristics

Housing colour:	black
Housing material:	ABS
Weight:	1,2 kg

Cable category:	coaxial cable
Cable type:	RG-174 RG-58 U
Cable attenuation:	1.5 dB @ 1.5 GHz per meter RG-174 0.6 dB @ 1.0 GHz per meter RG-58/U
Cable colour:	black
Cable length:	3 m (incl. connectors)
Diameter:	143.6 mm
Height:	6.5 cm