

# Navilock Multiband GNSS GALILEO GPS LTE UMTS GSM SMA Antenna omnidirectional roof mount outdoor

## Description

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

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. 12457**

EAN: 4043619124572

Country of origin: China

Package: Zip poly bag

## Specification

- Connectors: 3 x SMA plug
- GNSS:
  - Frequency range:
  - GPS: L1, 1.57542 GHz
  - GALILEO: E1, 1,57542 GHz
  - Antenna gain: 4 dBi
  - VSWR: 2.5
  - Impedance: 50 Ohm
  - Polarisation: RHCP
- LNA GPS:
  - Frequency range:
  - GPS: L1, 1.57542 GHz
  - GALILEO: E1, 1,57542 GHz
  - Gain: 28 dBi
  - Voltage: 2.2 - 5.0 V

Current: 5 - 15 mA  
VSWR: 2.0  
Impedance: 50 Ohm  
Cable category: coaxial  
Cable type: RG-174  
Cable attenuation:  
1.5 dB @ 1.5 GHz per meter  
Cable diameter: ca. 2.7 mm

- LTE:

Frequency range:  
0.698 - 0.960 GHz  
1.710 - 2.700 GHz  
LTE Band: 1-10/ 12-20/ 23/ 25-30/ 33-41  
GSM / UMTS / LoRa 868 MHz, 915 MHz / ZigBee / Z-Wave / WLAN 2.4 GHz / Bluetooth  
Antenna gain: 3 dBi  
Impedance: 50 Ohm  
Polarisation: linear  
VSWR: 2.5  
Cable category: coaxial  
Cable type: RG-58/U  
Cable attenuation:  
0.6 dBi @ 1 GHz per meter  
Cable diameter: ca. 4.95 mm

- GSM UMTS:

Frequency range:  
0.824 - 0.960 GHz  
1.710 - 2.170 GHz  
GSM / UMTS / Z-Wave  
Antenna gain: 3 dBi  
Impedance: 50 Ohm  
Polarisation: linear  
VSWR: 2.5  
Cable category: coaxial  
Cable type: RG-58/U  
Cable attenuation:  
0.6 dBi @ 1 GHz per meter  
Cable diameter: ca. 4.95 mm

- Operating temperature: -40°C ~ 85°C
- Housing material: ABS
- Protection class: IP67
- Screw assembly:

Hole diameter: 30 mm

- Colour: black
- Dimension (ØxH): ca. 143.6 x 65 mm
- Cable color: black
- Cable length: ca. 3 m

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## System requirements

- Device with free SMA connectors

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## Package content

- Multiband antenna
- Nut



## General

Mounting type:	design 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)
Cable diameter:	4.95 mm RG-58 U 2.70 mm RG-174
Diameter:	143.6 mm
Height:	6.5 cm