

# 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: White Box

### **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

#### **DATASHEET**



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: ABSProtection class: IP67

· Screw assembly:

#### DATASHEET



Hole diameter: 30 mm

• Colour: black

• Dimension (ØxH): ca. 143.6 x 65 mm

Cable color: blackCable length: ca. 3 m

# **System requirements**

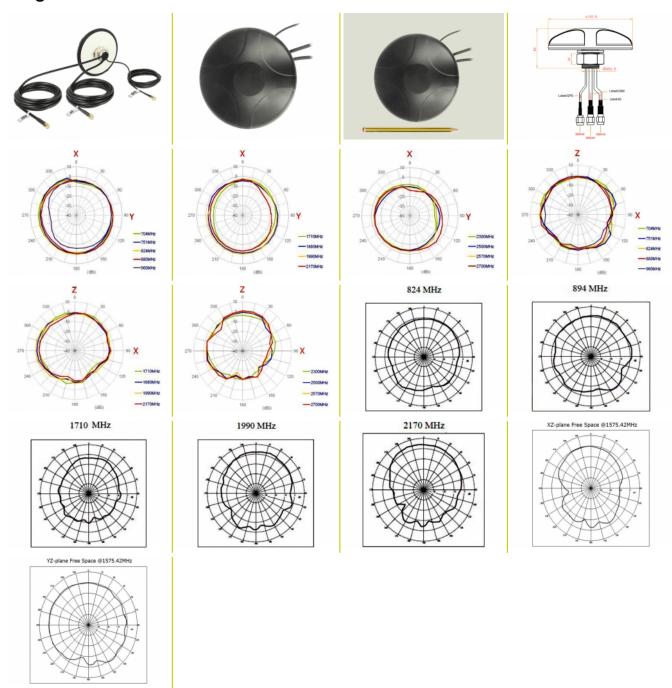
• Device with free SMA connectors

# **Package content**

- Multiband antenna
- Nut



# **Images**







#### General

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

## Interface

connector: 3 x SMA

## **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



# **DATASHEET**

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