

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

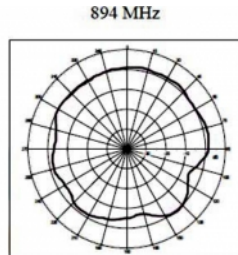
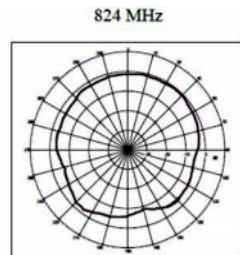
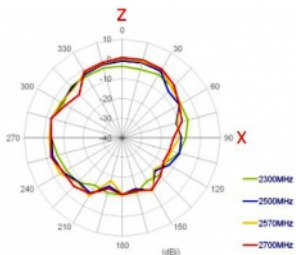
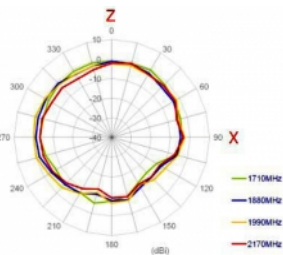
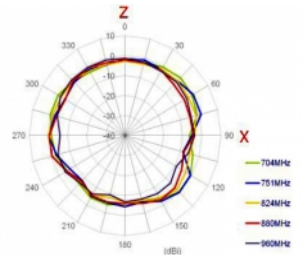
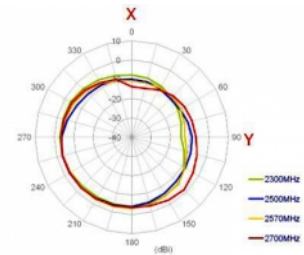
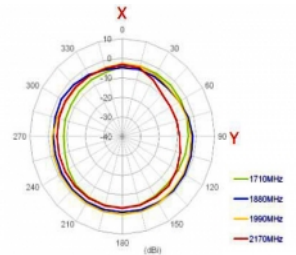
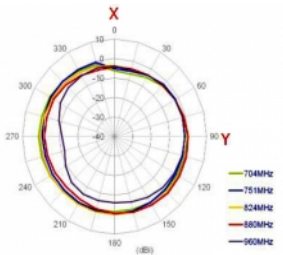
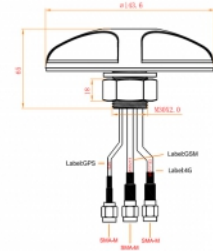
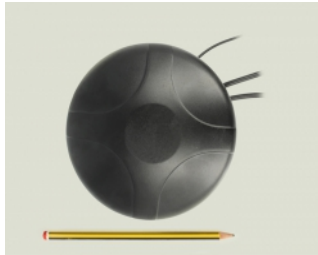
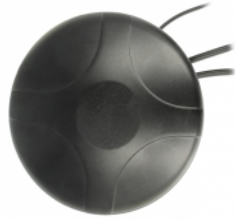
System requirements

- Device with free SMA connectors

Package content

- Multiband antenna
- Nut

Images

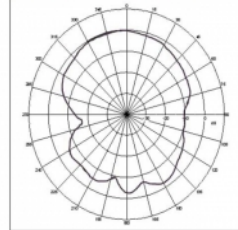
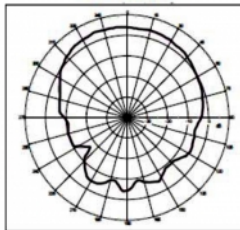
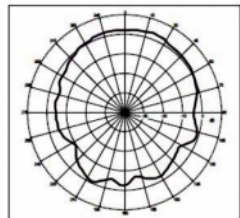
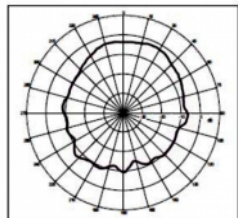


1710 MHz

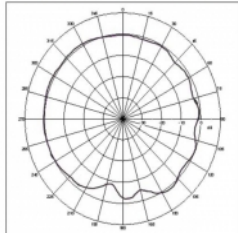
1990 MHz

2170 MHz

XZ-plane Free Space @1575.42MHz



YZ-plane Free Space @1575.42MHz



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 |

| | |
|--------------------|---|
| 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 |