

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

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

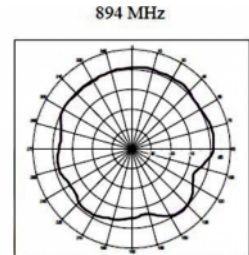
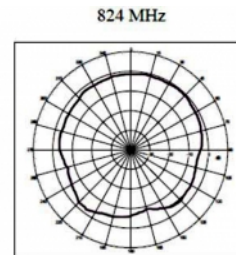
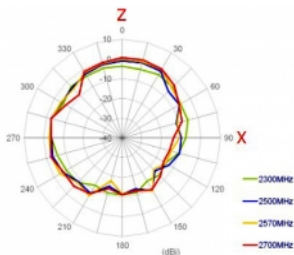
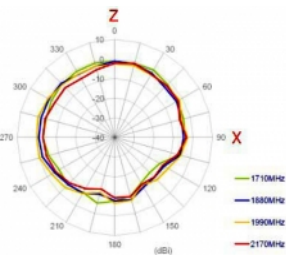
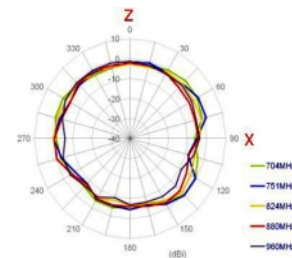
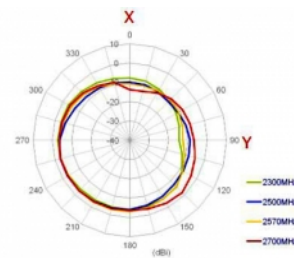
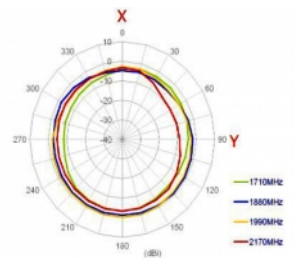
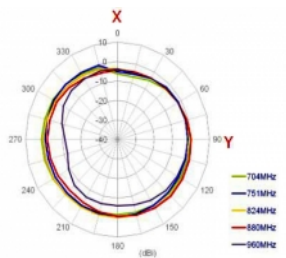
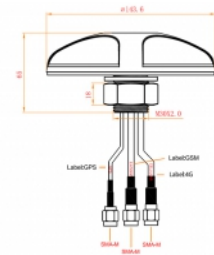
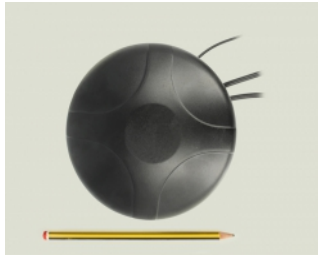
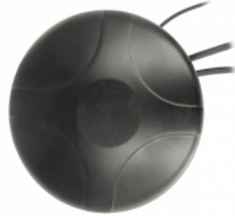
System requirements

- Device with free SMA connectors

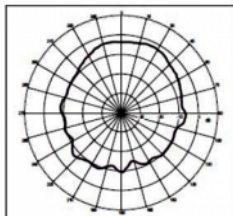
Package content

- Multiband antenna
- Nut

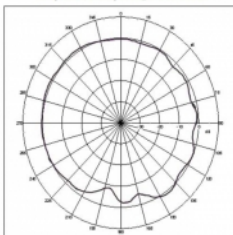
Images



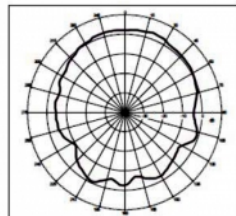
1710 MHz



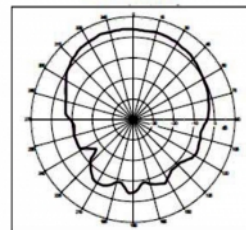
YZ-plane Free Space @1575.42MHz



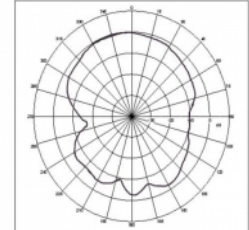
1990 MHz



2170 MHz



XZ-plane Free Space @1575.42MHz



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)
Diameter:	143.6 mm
Height:	6.5 cm