

Navilock NL-400 Multiband GNSS 5G LTE-MIMO WLAN-MIMO IEEE 802.11 ac/a/h/b/g/n Antenna 5 x RP-SMA omnidirektional roof mount outdoor

Description

This high quality multi band antenna is composed of five physically separate transmitting and receiving units. The GNSS patch antenna receives signals from the Global Navigation Satellite Systems GPS, GALILEO and GLONASS. Two PCB antennas in MIMO mode working in all popular 5G and LTE bands. Two other PCB antennas in MIMO mode cover off the WLAN area in the dual band completely. Furthermore, this multi-band antenna is capable of GSM, UMTS, Bluetooth, Z-Wave and ZigBee signals to be transmitted. The NL-400 delivers and transmits signals in all circumstances reliably, quickly and accurately.

5G the new mobile radio standard

5G unlike its predecessors LTE (4G) and UMTS (3G) will use more and wider frequency spectrums.

The 5G standard promises **more throughput, capacity** and low **latency**.



Item no. 88989

EAN: 4043619889891

Country of origin: Taiwan,
Republic of China

Package: Box

Technical details

- Connectors: 5 x RP-SMA plug
- **GNSS GPS GALILEO GLONASS:**
 - Frequency range:
 - GPS, GALILEO: L1, 1.5754200 GHz
 - GLONASS: G1, 1.6025625 - 1.6155000 GHz
 - Gain: 4 dBi
 - VSWR: Impedance: 50 Ohm
 - Polarisation: RHCP
- **LNA GNSS:**
 - Frequency range:
 - GPS, GALILEO: L1, 1.5754200 GHz
 - GLONASS: L1, 1.6025625 - 1.6155000 GHz
 - Gain: 30 dBi
 - Voltage: 3.3 - 5.0 V
 - Current: 17 mA
 - VSWR: Impedance: 50 Ohm
 - Polarisation: linear

Cable type: RG-174

Cable attenuation:

2.4 GHz: 2.06 dB per meter

6.0 GHz: 3.45 dB per meter

- **5G LTE MIMO:**

Frequency range:

698 - 960 MHz

1.710 - 2.170 GHz

2.500 - 2.600 GHz

3.400 - 3.800 GHz

GSM / UMTS/ ZigBee/ Z-Wave / LoRa

Gain: 3.4 - 4 dBi

Operating power: 5 W

VSWR: Impedance: 50 Ohm

Polarisation: linear

Cable type: CFD200

Cable attenuation:

2.4 GHz: 0.55 dB per meter

5.7 GHz: 0.86 dB per meter

- **WLAN MIMO dualband**

Frequency range:

2.400 - 2.483 GHz

5.150 - 5.850 GHz

Bluetooth/ ZigBee

Gain: 4 dBi

Operating power: 1 W

VSWR: Impedance: 50 Ohm

Polarisation: linear

Cable type: CFD200

Cable attenuation:

2.4 GHz: 0.55 dB per meter

5.7 GHz: 0.86 dB per meter

- Operating temperature: -40°C - 80°C
- Housing: PC-540 PC/ABS Alloy
- Cable length: 3 m
- Cable colour: black
- Protection class: IP67
- Dimensions (LxWxH): ca. 160 x 106 x 102 mm

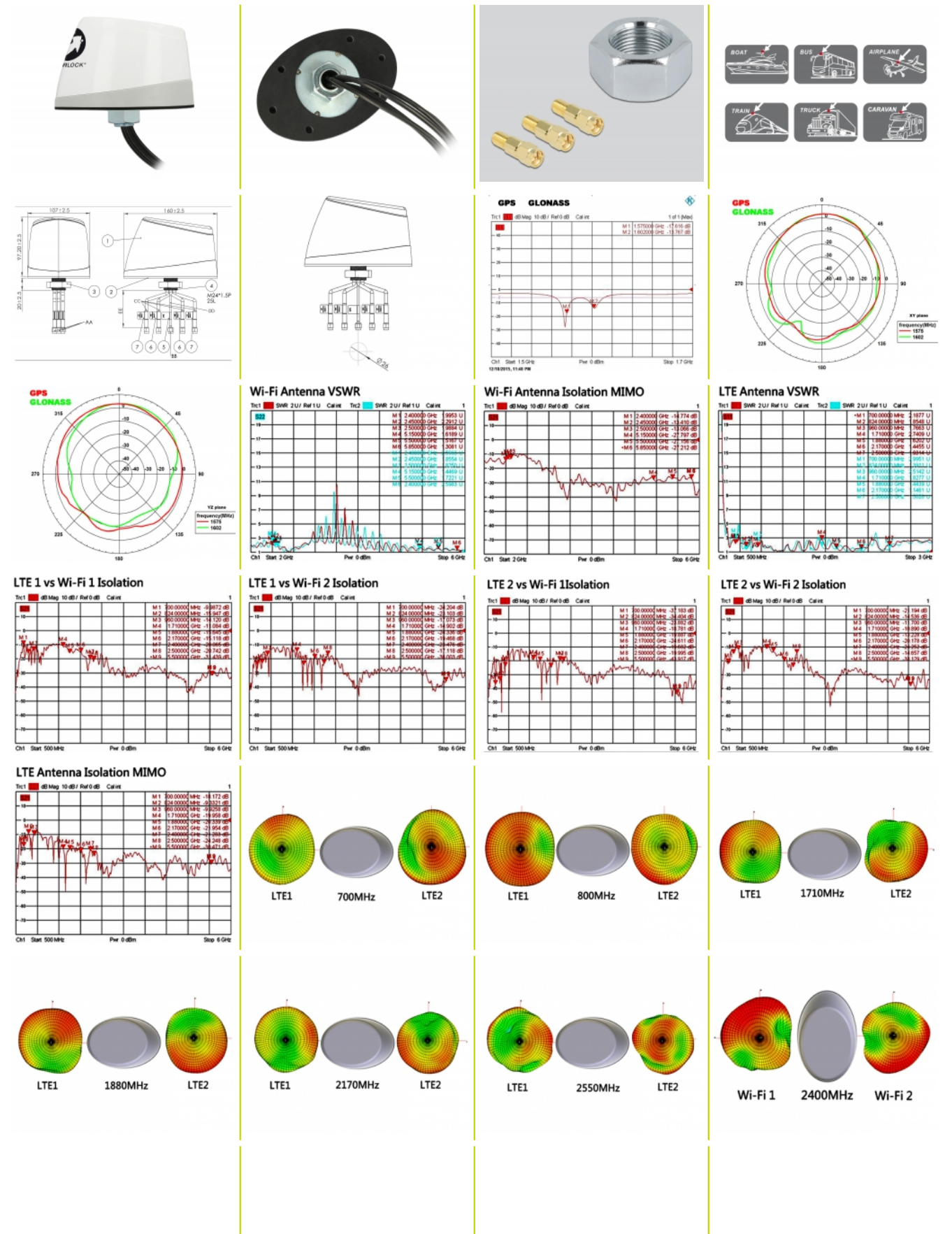
System requirements

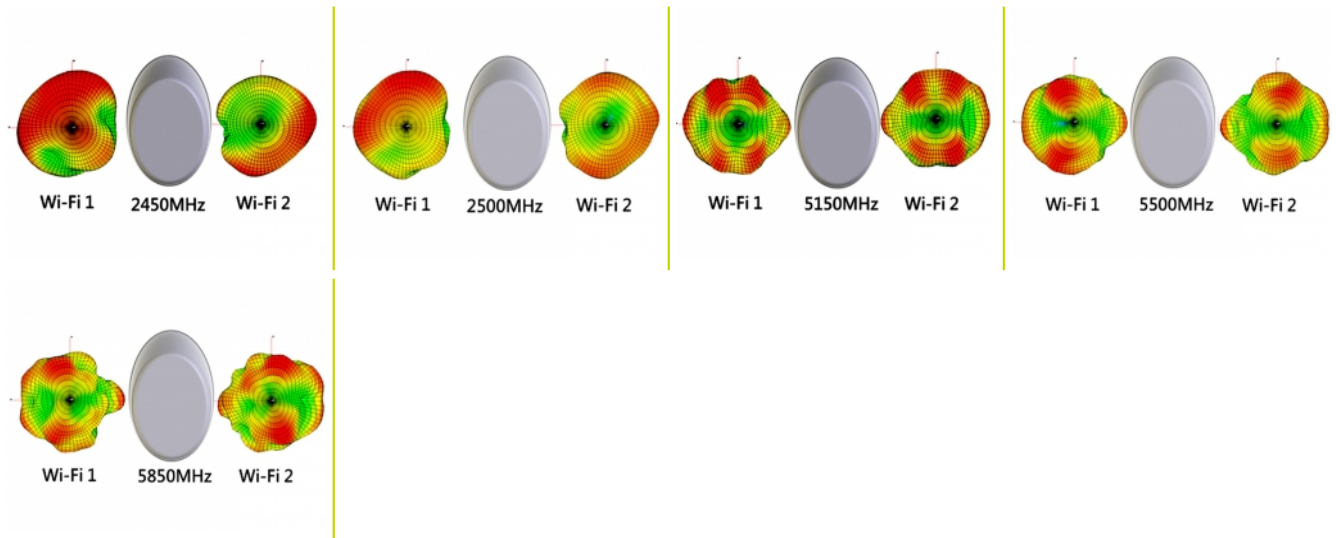
- Device with some free RP-SMA connectors
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Package content

- Multiband Antenna
- Mounting nut
- 3 x HF adapter RP-SMA jack > SMA plug

Images





General

Mounting type:	design mounting
Protection class:	IP67
Suitable for indoor:	yes
Suitable for outdoor:	yes

Interface

Connector:	2 x RP-SMA plug LTE 2 x RP-SMA plug WLAN 1 x RP-SMA plug GNSS
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Technical characteristics

Operating voltage:	LNA GNSS 3 - 5 V
Frequency range:	LTE MIMO 1.7100 GHz - 2.1700 GHz 2.5000 GHz - 2.7000 GHz 3.4000 GHz - 3.8000 GHz WLAN MIMO Dualband 2.4000 GHz - 2.4835 GHz 5.1500 GHz - 5.8750 GHz LNA GNSS GLONASS: G1, 1.6025625 - 1.6155000 GHz GPS: L1, 1,5754200 GHz GALILEO: E1. 1.5754200 GHz GNSS GPS GLONASS GLONASS: G1, 1.6020000 (k x 0.5625) GHz GPS: L1, 1,5754200 GHz GALILEO: E1. 1.5754200 GHz

Gain:	GNSS GPS GLONASS 4 dBi LNA GNSS 30 dBi LTE MIMO 3.4 - 4 dBi WLAN MIMO Dualband 4 dBi
Impedance:	50 Ω
Polarisation:	GNSS GPS GLONASS RHCP LTE MIMO linear vertical WLAN MIMO Dualband linear vertical
Transmission power:	LTE MIMO 5 W WLAN MIMO Dualband 1 W
Current consumption:	LNA GNSS 10 - 16 mA
VSWR:	GNSS GPS GLONASS 2.0 LNA GNSS 2.0 LTE MIMO 3.0 WLAN MIMO Dualband 3.0

Physical characteristics

Housing colour:	white
Housing material:	PC-540 PC/ABS Alloy
Weight:	1.6 kg
Thread length:	20 mm

Cable category:	coaxial cable
Cable type:	GNSS GPS GLONASS RG-174 LTE MIMO CFD200 WLAN MIMO Dualband CFD200
Cable attenuation:	0.50 dB @ 200 MHz per meter RG-174 0.61 dB @ 1.8 GHz per meter
Cable colour:	black
Cable length:	3 m (incl. connector)
Length:	16.0 cm
Width:	10.6 cm
Height:	10.2 cm
Thread type:	M24

Manufacturer information

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