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

Specification

- 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: < 2
  Impedance: 50 Ohm
  Polarisation: RHCP

- LNA GNSS:
  Frequency range:
  GPS, GALILEO: L1, 1.5754200 GHz

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GLONASS: L1, 1.6025625 - 1.6155000 GHz
Gain: 30 dBi
Voltage: 3.3 - 5.0 V
Current: 17 mA
VSWR: < 2
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

- 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: < 3
  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: < 3
  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

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- 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

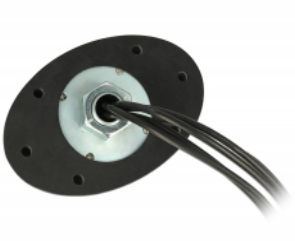
Package content

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

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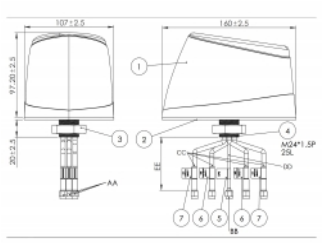
Images

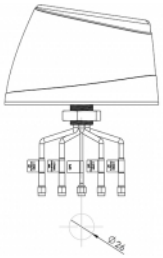


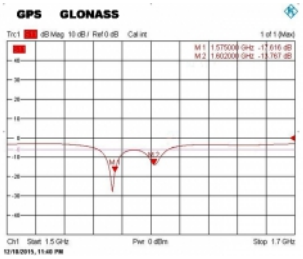


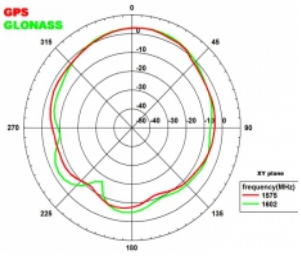


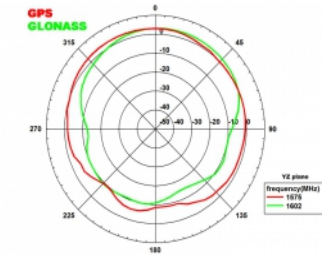


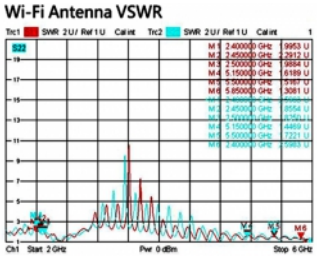


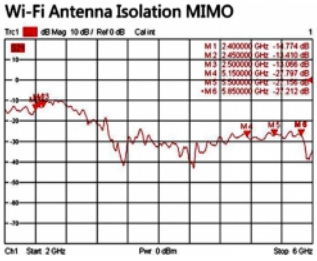


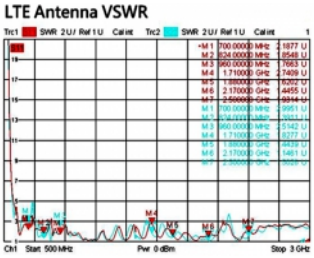


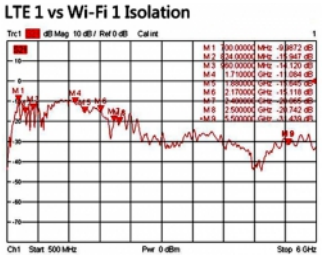


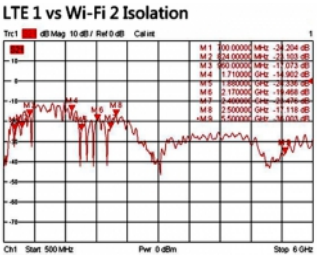


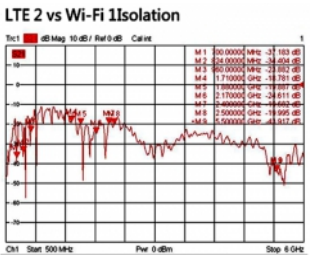




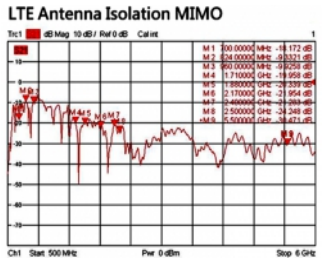


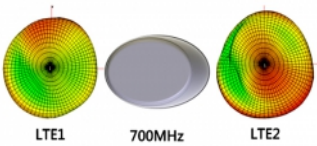


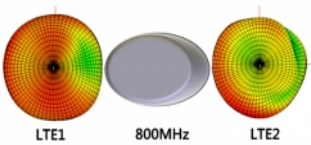


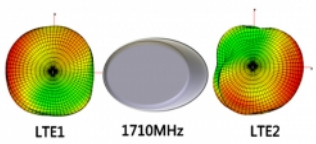


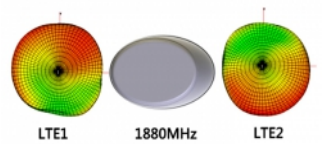


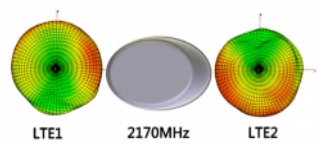


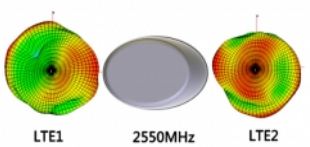


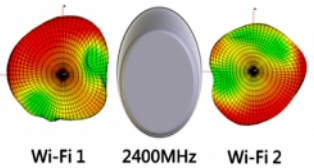




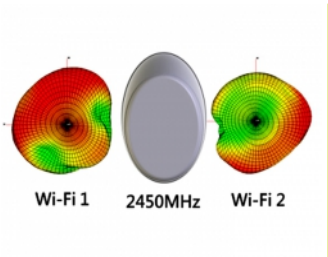


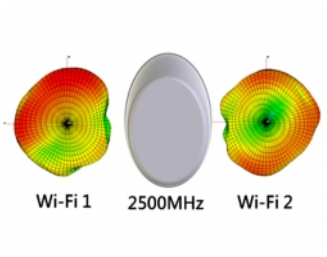


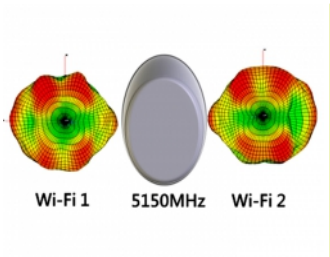


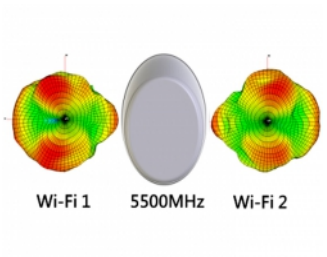


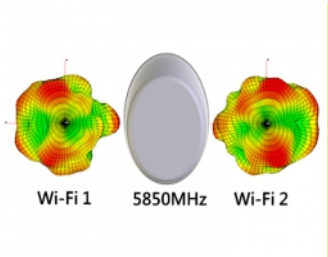
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General

Mounting type:	design mounting
Protection category:	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

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 698 MHz - 960 MHz 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

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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
Power handling:	**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

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

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