

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 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.



Specification

- Connectors: 5 x RP-SMA plug
- **GNSS GPS GLONASS:**
 - Frequency range:
 - GPS: 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: 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
- **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

Item no. 88989

EAN: 4043619889891

Country of origin: Taiwan, Republic of China

Package: Box





- 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

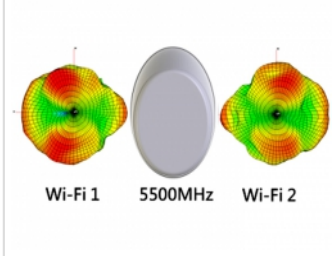
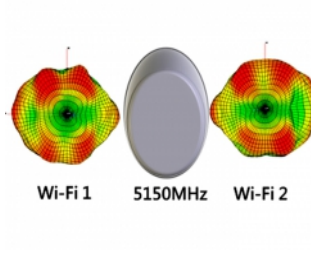
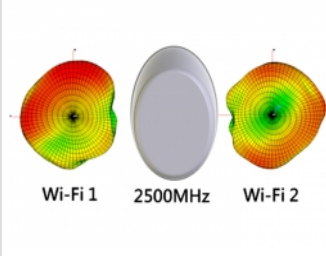
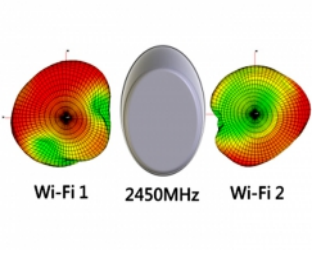
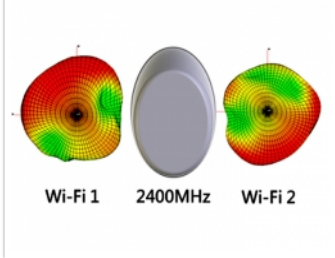
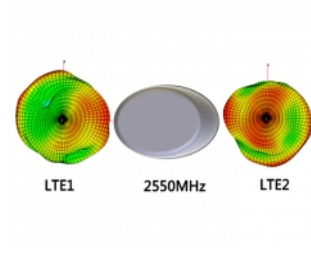
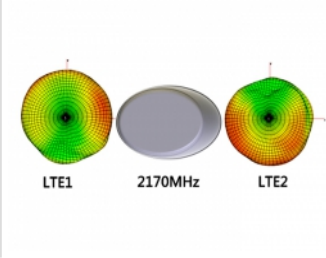
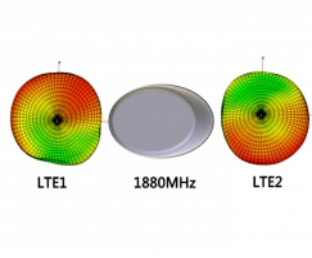
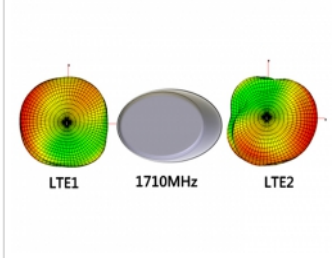
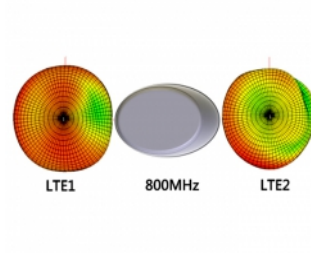
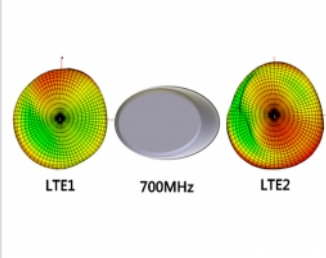
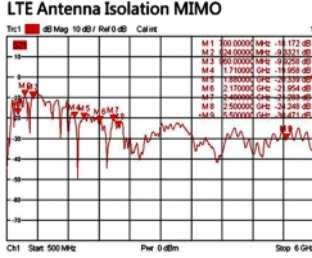
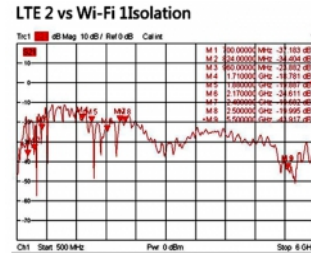
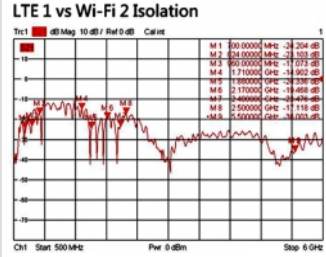
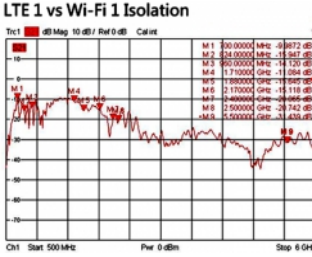
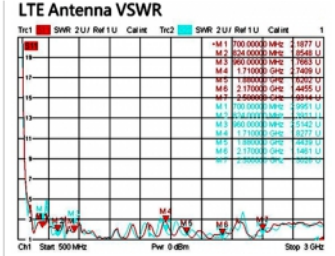
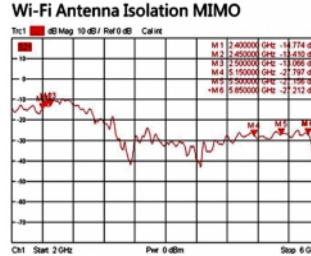
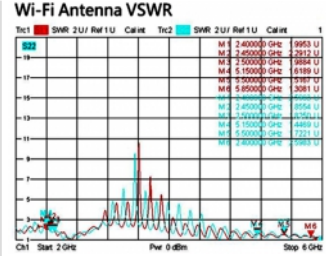
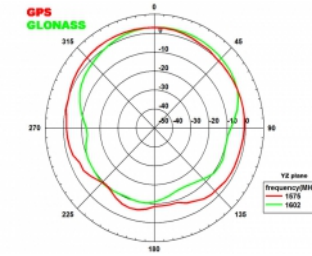
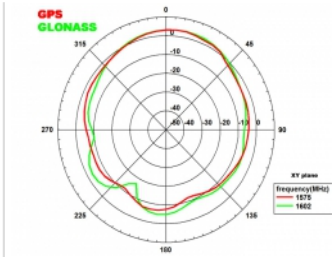
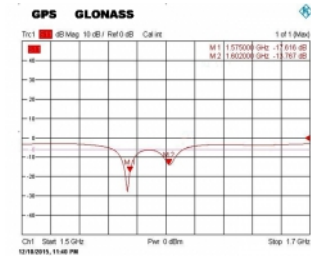
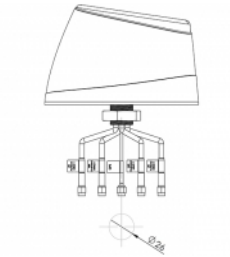
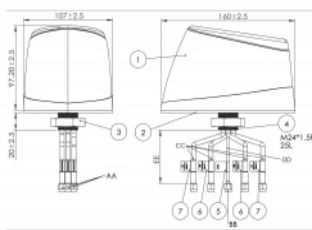
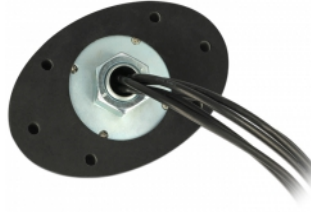
- Device with some free RP-SMA connectors

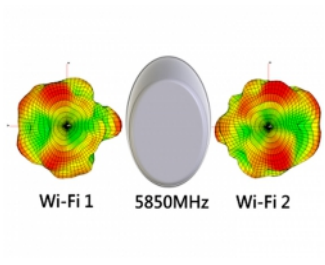
Package content

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



Images







General	
Mounting type:	standard design mounting
Protection category:	standard IP67
Suitable for indoor:	standard yes
Suitable for outdoor:	standard yes
Interface	
connector:	standard 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 GNSS GPS GLONASS GLONASS: G1, 1.6020000 (k x 0.5625) GHz GPS: L1, 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:	standard 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:	standard white
Housing material:	standard PC-540 PC/ABS Alloy
Weight:	standard 1.6 kg
Thread length:	standard 20 mm
Cable category:	standard coaxial cable
Cable type:	GNSS GPS GLONASS RG-174 LTE MIMO CFD200 WLAN MIMO Dualband CFD200
Cable attenuation:	standard 0.61 dB @ 1.8 GHz per meter CFD200 0.50 dB @ 200 MHz per meter RG-174
Cable colour:	standard black
Cable length:	standard 3 m (incl. connector)



Length:	standard 16.0 cm
Width:	standard 10.6 cm
Height:	standard 10.2 cm
Thread type:	standard M24