

Delock Multiband GNSS LTE-MIMO, WLAN MIMO IEEE 802.11 ac/a/h/b/g/n Antenna 5x RP-SMA omnidirectional 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 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 multi band antenna 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: L1, 1.6025625 - 1.6155000 GHz
 - Gain: 4 dBi
 - VSWR: < 2
 - 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: < 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
 - LTE Band: 1-10/ 12-20/ 23/ 25-30/ 33-41/ 44
 - GSM / UMTS/ ZigBee/ Z-Wave
 - 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

Item No. 88967

EAN: 4043619889679

Country of origin: Taiwan, Republic of China

Package: Box

- **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

- 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

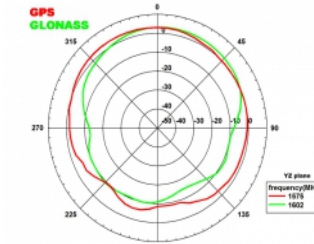
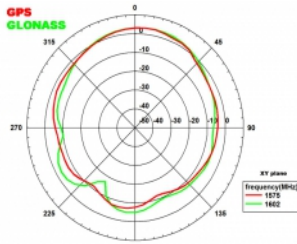
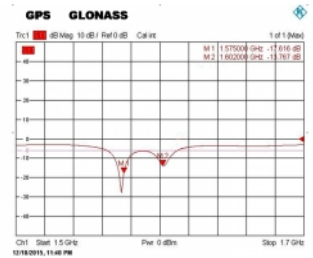
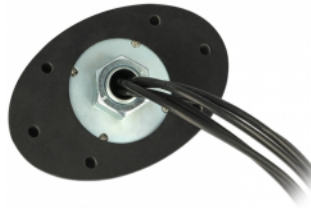
System requirements

- Device with free RP-SMA connectors

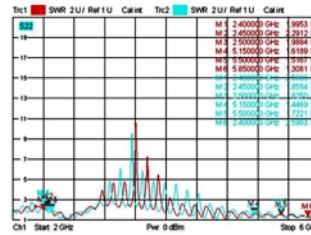
Package content

- Multiband Antenna
- Nut
- 3 x RF adapter RP-SMA jack > SMA plug

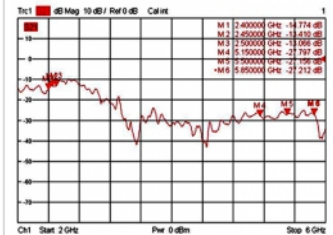
Images



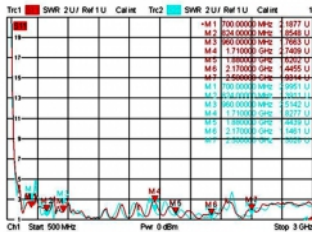
Wi-Fi Antenna VSWR



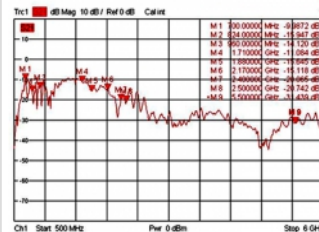
Wi-Fi Antenna Isolation MIMO



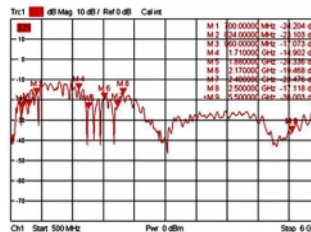
LTE Antenna VSWR



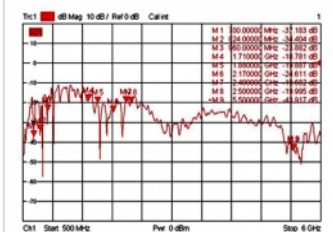
LTE 1 vs Wi-Fi 1 Isolation



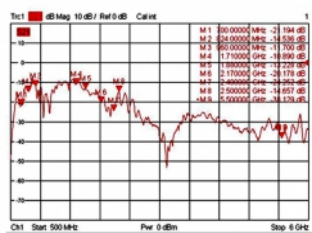
LTE 1 vs Wi-Fi 2 Isolation



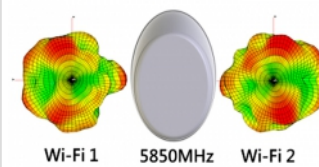
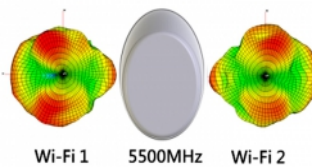
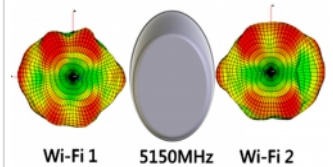
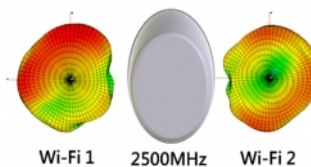
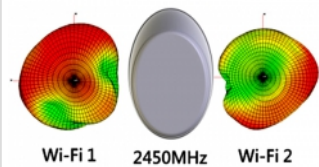
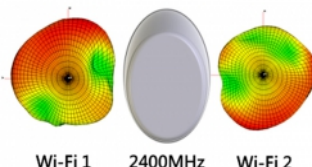
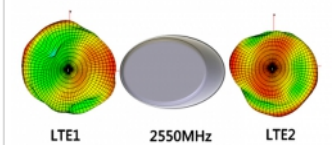
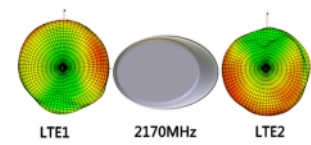
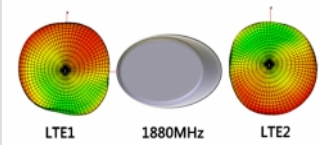
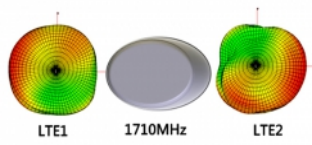
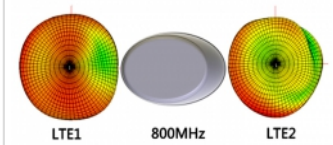
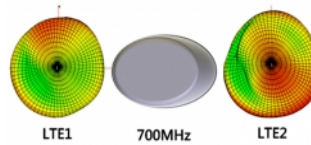
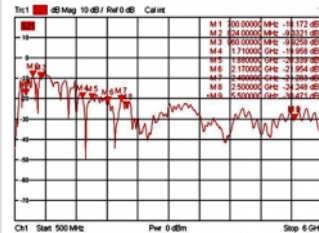
LTE 2 vs Wi-Fi 1 Isolation



LTE 2 vs Wi-Fi 2 Isolation



LTE Antenna Isolation MIMO



General	
Mounting type:	design mounting
Protection category:	IP67
Suitable for indoor:	yes
Suitable for outdoor:	yes
Interface	
connector:	1 x RP-SMA plug GNSS 2 x RP-SMA plug LTE 2 x RP-SMA plug WLAN
Technical characteristics	
Operating voltage:	LNA GNSS 3 - 5 V
Frequency range:	GNSS GPS GLONASS GPS: L1, 1.5754200 GHz GLONASS: L1, 1.6025625 - 1.6155000 GHz LNA GNSS GPS: L1, 1.5754200 GHz GLONASS: L1, 1.6025625 - 1.6155000 GHz LTE MIMO 698 - 960 MHz 1.71 - 2.17 GHz 2.500 - 2.700 GHz WLAN MIMO Dualband 2.400 - 2.483 GHz 5.150 - 5.850 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
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
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
Length:	16.0 cm
Width:	10.6 cm
Height:	10.2 cm