

HIRSCHMANN MOBILITY



Subject to alterations

WLAN (2.4GHz/5.8GHz) Screw Antenna

WLAN 2458 LP S MIMO/series

Pt no.

951-001-...

- Low Profile antenna
- Mount on any surfaces (e.g. plastics, metal...)
- For WLAN networks (2,4 GHz or/and 5,8 GHz)
- Diagnostic resistance possible on MIMO 2
- Public transport or building indoor & outdoor, M2M application

Technical data

Electrical Specification

Frequency range	Bluetooth: IEEE 802.11 b, g, n, ax: IEEE 802.11 a, h, n, ac, ax: IEEE 802.11 n: IEEE 802.11 p:	2400 - 2484 MHz 2412 - 2484 MHz 5150 - 5725 MHz 2400 - 2484 MHz 5150 - 5725 MHz 5755 - 5925 MHz
Impedance		50 Ohm
VSWR	2400 – 2485 MHz 5150 – 5925 MHz	≤ 1,6 ≤ 1,6
Polarization		Linear, vertical
Gain (linear gain, vertical polarization)	2400 – 2485 MHz 5150 – 5925 MHz	2,5 dBi* 3 dBi*
Isolation	Port 1-2 & 2-3 (for MIMO3) Port 1-3 (2400 - 2485 MHz) Port 1-3 (5150 - 5925 MHz)	> 10 dB > 16 dB > 18 dB
Load capacity	IEEE 802.11 b, g, n, ax: IEEE 802.11 a, h, n, ac, ax: IEEE 802.11 n: IEEE 802.11 p:	≤ 200 mW ≤ 1000 mW ≤ 200 mW (2,4 - 2,84 GHz) ≤ 1000 mW (5,1 - 5,72 GHz) ≤ 8 W EIRP (5,79 - 5,81 GHz) ≤ 2 W EIRP (5,85 - 5,92 GHz)

Mechanical

Dimensions	ca. 124 mm x 80 mm x 31 mm
Housing Materials	ASA-PC
Weight	270 g
Operations temperature range	- 40 + 85 °C
Storage temperature range	- 40 + 85 °C
Housing protection class	IP66 (acc. IEC 60529)
Cable type	RG174 Low Loss (long dimensions not adapted to WLAN > 5 GHz)

Versions

951-001-001	MIMO 3 SMAm 0,15	x 3	140/170/200 +30 mm	SMA male straight
951-001-002	MIMO 2 SMAm 0,15	x 2	140/200 +30 mm	SMA male straight

* dBi: referenced to an isotropic radiator

Technical drawings

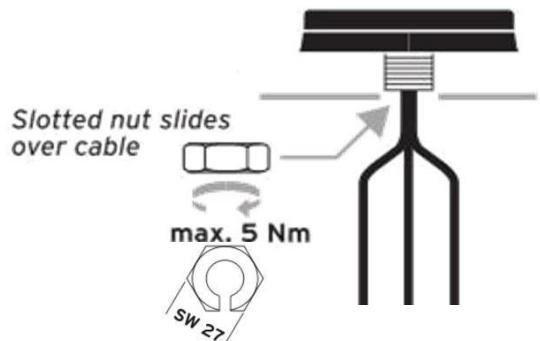
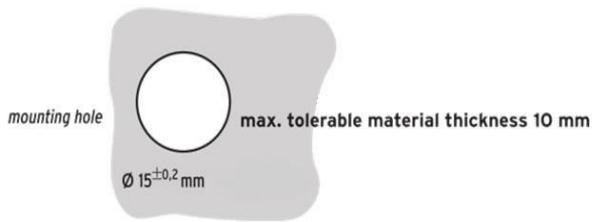
WLAN (2.4GHz/5.8GHz) SCREW ANTENNA

WLAN 2458 LP S MIMO/series Pt no. 951-001-...



Installation

- Take the necessary electrostatic precautions for a connection of electronic components (Potential ESD < 1 KV)
- Surface must be flat (maximum radius 1mm per meter), max thickness 10 mm
- No metallic (conductive) surface above the antenna
- Connectors are not waterproof, so area below the antenna must be dry
- Drill a hole (diameter 15 +4/-0,5mm) (clean with isopropyl alcohol or similar)
- Screw the nut on the grounding plate (Torque 5 Nm +0-20%)
- No adjunction of any material (silicones, glue, ...)
- Check that the coaxial cable is not electrically charged (Potential ESD < 1 KV)
- Connect the coaxial cable connector by hand without forcing (Torque 1 +/- 0,15 Nm = handmade)
- Check that the wires respect the appropriate way, not pulled / stressed / bended < 25mm radius / touching aggressive parts



www.te.com/hirschmann-mobility

hirschmann-mobility@te.com

TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks. Hirschmann is a trademark.

Bluetooth is a trademark.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2020 TE Connectivity Ltd. family of companies All Rights Reserved.