



A58W4

4G/WI-FI/GNSS 3in1 combo antenna

The **A58W4** is a compact, IP67-rated antenna combining one 4G LTE element, one Wi-Fi element and one GNSS L1 element in a low-profile design (Ø81 × 15.5 mm). It supports wide 4G frequency bands (698–960 MHz, 1710–2690 MHz), Wi-Fi (2400 MHz), GNSS (1565–1606 MHz), and legacy networks (2G, 3G, LTE-M, NB-IoT).

Featuring high signal efficiency and strong isolation to reduce interference, it ensures stable data and positioning performance. Easy to install via adhesive or screw mount, the **A58W4** includes 300 mm cables with **2 SMA Male connectors** and **1 RP-SMA Male connector**. Ideal for discrete and durable integration in hybrid energy or industrial applications.



| PART NUMBER | DESCRIPTION |
|-------------|----------------------------------|
| A58W4 | 4G/Wi-Fi/GNSS 3in1 combo antenna |

KEY FEATURES

➔ 3-in-1 combo antenna

4G, Wi-Fi & GNSS L1

➔ Dual mounting options

Adhesive or screw mount

➔ SMA & RP-SMA Male connectors

300 mm cable length

➔ Backward compatibility

2G/3G/LTE-M/NB-IoT networks

➔ Efficiency

Up to 62.6 % (Wi-Fi), Up to 54.09 % (GNSS)

➔ GNSS LNA Gain

18 ±3 dB

➔ IP67-rated enclosure

Ensuring durability and waterproof performance

➔ Compliant

RoHS

SPECIFICATIONS

| ELECTRICAL | | | |
|-------------------|------------|----------------------------|------------|
| Frequency Range | 4G | 698–960 MHz, 1710–2690 MHz | |
| | Wi-Fi | 2400 MHz | |
| | GNSS | 1565–1606 MHz | |
| Radiation Pattern | 4G | Omni-directional | |
| | Wi-Fi | Omni-directional | |
| | GNSS | Directional | |
| Polarization | 4G | Linear | |
| | Wi-Fi | Linear | |
| | GNSS | RHCP | |
| Impedance | 50 Ω | | |
| Isolation | 4G-Wi-Fi | FS | ≤ -7.6 dB |
| | | MP | ≤ -7.8 dB |
| | 4G-GNSS | FS | ≤ -47.2 dB |
| | | MP | ≤ -43.4 dB |
| | Wi-Fi-GNSS | FS | ≤ -40.9 dB |
| | | MP | ≤ -45.0 dB |

- MP : On 300 mm × 300 mm Metal Plane
- FS : In Free Space





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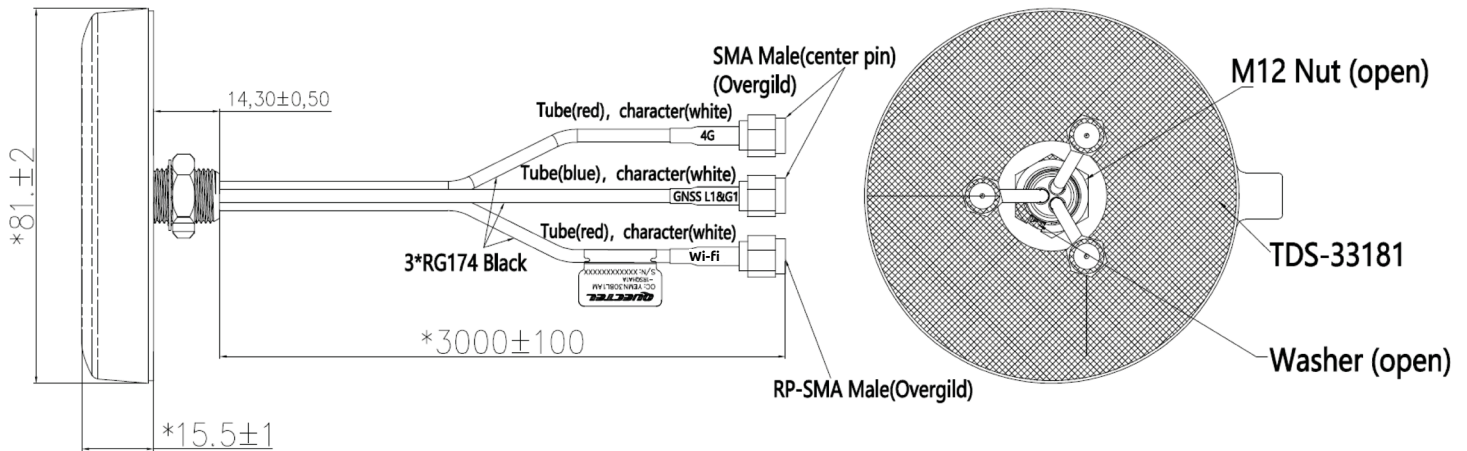
MECHANICAL

| | | |
|-----------------------------|-------------------|------------------------|
| Antenna Dimensions | Φ 81 mm × 15.5 mm | |
| Antenna Material & Color | ABS & Black | |
| Cable Type & Color & Length | 4G | RG174 & Black & 300 mm |
| | Wi-Fi | RG174 & Black & 300 mm |
| | GNSS L1&G1 | RG174 & Black & 300 mm |
| Connector Type | 4G | SMA Male |
| | Wi-Fi | RP-SMA Male |
| | GNSS L1&G1 | SMA Male |
| Mounting Type | Adhesive & Screw | |
| Weight | Typ. 72.55 g | |

ENVIRONMENTAL

| | | |
|--------------------------------|------------------|--|
| Operation Temperature | -20 °C to +70 °C | |
| Storage Temperature | -20 °C to +70 °C | |
| Ingress Protection (IP) Rating | IP67 | |
| RoHS Compliant | Yes | |

ANTENNA DRAWING



RELATED PRODUCTS

PRODUCTS

| | |
|-------|---|
| A58W0 | 4G/GPS antenna for I4Gen Box |
| A58W3 | WIFI antenna for I4Gen Box |
| A58U0 | I4Gen Box with support for 4G and GPS functionality |
| A58U1 | I4Gen Box for LAN connectivity via WIFI and LAN |

