

# Extendr® 2

High performance multiband cellular and GNSS antenna with extended range

Rugged tamper-proof multiband antenna combining all major cellular bands and 4 GNSS applications. The antenna is ideal for fleet management, IoT and M2M applications providing a stable connection in critical areas. The Extendr® antenna family offers multiple mounting options. The antenna is offered with customer specified cables and connectors.

- 9 bands and 4 GNSS in one installation
- IP67 water proof design for professional use
- Low profile design
- Ground plane independent

## ELECTRICAL SPECIFICATIONS

|                              |   |
|------------------------------|---|
| Frequency                    | 790 - 2690 MHz, 1561.1 - 1605.4 MHz (LTE800/1800/2600, GSM850/900/1800, PCS/DECT1900, UMTS900/2100, GNSS) |
| Impedance                    | 50 Ohm  |
| Vswr                         | <3.0:1 (790-960 MHz), < 3.0:1 (1710-2170 MHz), <1.5:1 (2500-2690 MHz)                                     |
| Satellite System             | GLONASS, GPS, Galileo and BeiDou  |
| Polarisation                 | LTE/GSM/UMTS: Linear, GNSS: RHCP  |
| Gain                         | 1 dBd, 3.1 dBi (790-960 MHz, 1710-2170 MHz) 3 dBd, 5.1 dBi (2500-2690 MHz)                                |
| Max. Input Power             | 10 W  |
| LNA gain                     | 26 dB (GNSS)  |
| Noise Figure                 | 1.35 dB (GNSS)  |
| Supply voltage               | 3 - 5.5 V DC (Fed via cable) (GNSS)   |
| Current consumption, average | 20 mA (GNSS)  |
| Antistatic Protection        | Direct Ground (DC-short)  |



Datasheet

MECHANICAL SPECIFICATIONS

|                       |  |
|-----------------------|--|
| Color                 | Black  |
| Height                | 46 mm (Above surface when mounted)   |
| Weight                | 160 g  |
| Diameter              | Ø 111 mm   |
| Mounting Place        | On vertical or horizontal surfaces (conductive or non-conductive).<br>E.g. car roofs, metering cabinets and brackets |
| Mounting hole         | Ø 16 - 17 mm   |
| Materials             | ABS, silicon, brass, PVC, PE and PCB   |
| Operating Temperature | -40°C to +85°C   |
| Connector             | LTE/GSM/UMTS (Red): SMA-male (Other types available)   |
| Connector2            | GNSS (Blue): SMA-male (Other types available)  |
| Cable                 | RG174/U, 1.5 m (Other cable lengths available)   |
| Ingress protection    | IP67 (when mounted)  |



ORDERING INFORMATION

|     |   |
|-----|---|
| P/N | 48012-000 (1.5 m cable + SMA-male - Bulk packing) - Through Hole Mounting |
| P/N | 48012-001 (1.5 m cable + SMA-male - In polybag) - Through Hole Mounting   |
| P/N | 48022-000 (1.5 m cable + SMA-male - Bulk packing) - Adhesive Mounting     |
| P/N | 48022-001 (1.5 m cable + SMA-male - In polybag) - Adhesive Mounting       |
| P/N | 48032-000 (1.5 m cable + SMA-male - Bulk packing) - Magnetic Mounting     |
| P/N | 48032-001 (1.5 m cable + SMA-male - In polybag) - Magnetic Mounting       |

PACKAGING INFORMATION

|      |   |
|------|---|
| Type | Bulk paking or individually packing in Polybag (See "ORDERING INFORMATION") |
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