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Datasheet

# Extendr® 5G-2

High performance multiband cellular (2G, 3G, 4G & 5G) 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.

- Excellent performance, VSWR below 2.5 in 92% of the specified band
- IP67 water proof design for professional use
- Low profile design
- Ground plane independent

### **ELECTRICAL SPECIFICATIONS**

| Frequency                    | Cellular: 698-790 / 790-960 / 1710-2690 / 3300-3800 MHz  |
|------------------------------|--|
| Impedance                    | 50 Ohm   |
| Vswr                         | <4.0:1 (698-790 MHz) <3.0:1 (790-960 MHz) <1.5:1 (1710-2170 MHz, 2300-2690 MHz <2.0:1 (3300-3800 MHz)  Measured with 2.0 m cable |
| Satellite System             | GLONASS, GPS, Galileo and BeiDou   |
| Polarisation                 | Cellular: Linear<br>GNSS: RHCP   |
| Gain                         | 0 dBd, 2.1 dBi (698-960 MHz)<br>1 dBd, 3.1 dBi (790-960 MHz, 1710-2170 MHz)<br>3 dBd, 5.1 dBi (2300-2690 MHz, 3300-3800 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)   |
|                              |  |





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# **MECHANICAL SPECIFICATIONS**

| Color                    | Black  |
|--------------------------|--|
| Height                   | 46 mm (Above surface when mounted)   |
| Weight                   | 160 g  |
| Diameter                 | Ø 111 mm   |
| Mounting                 | Through Hole Mounting (Adheisve and Magnetic available)  |
| 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   |
| Build-in depth           | Max. 15.6 mm   |
| Materials                | ABS, silicon, brass, PVC, PE and PCB   |
| Operating<br>Temperature | -40°C to +85°C   |
| Connector 1              | Cellular (Red): SMA-male (Other types available)   |
| Connector 2              | GNSS (Blue): SMA-male (Other types available)  |
| Cable                    | RG174/U  |
| Ingress protection       | IP67 (when mounted)  |

# ORDERING INFORMATION

| 48102-001 | 2.0 m cable + SMA-male - Through Hole Mounting |
|-----------|--|
|-----------|--|

### PACKAGING INFORMATION

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