

# GPS-824

## 3-in-1 Roof-mounted Multiband Antenna (UHF/Cellular/GNSS) with High Gain Whip

Roof-mounted 3-in-1 combination antenna UHF high gain whip antenna and with integrated active GNSS antenna and Cellular

- High Gain UHF Whip
- Multiple bands in one installation
  - Tetra
  - GSM/UMTS/LTE
  - GLONASS/GPS/Galileo/BeiDou
- High quality compact construction

### ELECTRICAL SPECIFICATIONS

Frequency	380-470 MHz, 824-960 MHz/1710 -2710 MHz, 1552 - 1608 MHz (UHF/Cellular/GNSS)
Bandwidth	5% of f.res (VSWR≤2.0) (UHF) See "FREQUENCY" (Cellular, GNSS)
Impedance	50 Ohm
VSWR	≤1.3 @ f.res (380-470 MHz), ≤2.5 (1552-1608 MHz), ≤3.3 (824-960/1710-2710 MHz)
Satellite System	GLONASS, GPS, Galileo and BeiDou
Polarisation	Linear (UHF, Cellular), Right Hand Circular (RHC) (GNSS)
Gain	3 dBd, 5.15 dBi (UHF) 0 dBd, 2.15 dBi (Cellular)
Max. Input Power	15 W (UHF), 10 W (Cellular)
LNA Gain	18±1 dB @ 2.7 VDC 22±1 dB @ 5.0 VDC
Noise Figure	Max. 2.1 dB
Supply Voltage	2.7-5.0 VDC
Current Consumption, average	12 mA @ 2.7 VDC 26 mA @ 5.0 VDC



MECHANICAL SPECIFICATIONS

Color	Black
Weight	630 g
Dimensions	95 x 52 x 620 mm
Mounting Place	Vehicle roof (Metalic surface)
Mounting	Bolt-on
Mounting Hole	15x15 mm or Ø 19 mm
Mounting Instructions	Antenna Whip must be cut to specified frequency. See cutting diagram.
Materials	PA, PCB, PE, copper, brass and stainless steel
Operating Temperature	-30 to +80 °C
Connector	TNC-male (UHF), FME-female (Cellular), SMA-male (GNSS)
Cable	180 mm RG316/U (UHF), 130 mm RG174/U (Cellular), 210 mm RG174/U (GNSS)
Ingress Protection	IP65 (when mounted)
Serial No.	On product label

ORDERING INFORMATION

GPS-824	In Bag
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