

GPM-21 & GPM-21-1

Combination GPS + 4G LTE Roof Screw Mount Antenna

The GPM-21 and GPM-21-1 are professional-grade combination antennas integrating an **active GPS receiver** and **4G LTE** into a single compact, vandal-resistant roof screw-mount puck. Purpose-built for vehicle telematics, fleet management, security alarm communicators, IoT/M2M gateways and industrial wireless platforms.

The active GPS section features a high-gain **28 dB LNA** with precision **DR (Dielectric Resonator) filter** for superior satellite acquisition in challenging environments. The LTE section covers all Australian 4G bands — **700–960 MHz and 1700–2700 MHz** — ensuring full compatibility across Telstra, Optus and Vodafone networks. Both outputs terminate on **SMA Male connectors** via 3M RG174 cable, supplied ready to connect.



GENERAL SPECIFICATION

Model No.	GPM-21 / GPM-21-1
Antenna Type	Roof Screw Mount (Through-Hole / Stud Mount)
Housing Dimensions	L80 x W80 x H45 mm
Antenna Colour	Black — UV-Stabilised ABS Housing
Coaxial Cable	RG174 — 3M standard (custom lengths available on request)
Cable Connectors	SMA Male x 2 (1 x LTE output 1 x GPS output)
Operating Temp.	-30°C to +85°C
Storage Temp.	-40°C to +90°C
Humidity	40% to 95% RH (non-condensing)

LTE / 4G SPECIFICATION

Frequency	700–960 MHz / 1700–2700 MHz
Gain	1–4 dBi
VSWR	< 2.5
Polarization	Linear Vertical
Impedance	50 Ohm
Connector	SMA Male
Cable	RG174 3M

GPS SPECIFICATION

Op. Frequency	1575.42 ± 1.023 MHz (GPS L1)
Impedance	50 Ohm
Polarization	RHCP
Bandwidth	10 MHz min. @ S11 ≤ -10 dB
Gain @ 10° elev.	-1 dBic Typ.
Axial Ratio	3.0 dB Typ.
Connector	SMA Male



GPS LNA / FILTER SPECIFICATION

Table with 2 columns: Specification Name and Value. Rows include Op. Frequency, LNA Gain, Noise Figure, Filter Type, Rejection, Output VSWR, Supply Voltage, and Current Draw.

TYPICAL APPLICATIONS

Table with 3 columns: Application Area, Specific Use Case, and Device Type. Rows include Fleet Management, Remote Asset Monitoring, and Industrial Wireless Controllers.

Ready to Order or Need a Custom Solution?

D&G Antennas has been a trusted supplier to Australia's leading security integrators, fleet operators and OEM partners for over a decade. Whether you need a single evaluation unit or a scheduled production run, our team is ready to support your project from specification through to delivery.

Custom cable lengths, alternative connector types and private-label options are available on request. Lead times for stock items are typically 7 business days.

GET IN TOUCH

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Exclusive Tier 1 Trade Pricing Available. D&G Antennas offers exclusive Tier 1 pricing for qualified trade partners, system integrators and volume buyers. Contact our sales team directly to discuss your requirements and receive a tailored pricing schedule.

Specifications subject to change without notice. Australian Distributor: D&G Antennas Pty Ltd — 3/1 Harford Street, Jamisontown NSW 2750.