

GEOMATE

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GEOMATE GDL

WIRELESS GNSS DATA TRANSMITTER



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GEOMATE GDL is a radio data link dedicated to GNSS RTK applications and features powerful functions and simple operation. Commonly used radio frequencies can be preset in the range of 410 MHz to 470 MHz. The transmitting power is up to 30 W according to the users' needs. The GDL wireless modem is easy to use and allows for on-site configuration changes from its front LCD panel. With an IP67 rating for water and dust protection, and an operating temperature range of -40°C to +65°C, the GDL radio modem ensures the best performance even in harsh environments throughout projects.

TECHNICAL SPECIFICATIONS

Radio specifications	
Frequency bands	410 MHz to 470 MHz 433.05 MHz to 434.79 MHz (India)
Transmit power	Low : 0.01 W ~ 15 W (where permitted) High : 20 W ~ 30 W (where permitted)
Link rate	4,800 bps 9,600 bps 19,200 bps
Modulation	GMSK / 4FSK
Protocol	Transparent, TT450 S
General Specifications	
Communication	1 x RS232 serial port, up to 115,200 bps
User interface	1 LCD Display 5 control keys
Physical	
Size (L x W x H)	175 mm x 140 mm x 65 mm (6.9 in x 5.5 in x 2.6 in)
Weight	2 kg (70.5 oz)
Environment	Operating: -40°C to + 65°C (-40°F to + 149°F) Storage: -50°C to + 85°C (-58°F to + 185°F)
Ingress protection	IP67 waterproof and dustproof, protected from temporary immersion to depth of 1 m
Ports	1 x 5-pin LEMO port (external power and data transmit) 1 x TNC port
Mount	Tripod bracket

Power	
External power	9 V DC to 16 V DC
Antenna	
External power	50 Ohm, TNC female connector



*All specifications are subject to change without notice.

*The use of UHF datalink may be subject to local regulations. Users must ensure that the device is not operated without the permission of the local authorities on frequencies or power output other than those specifically reserved and intended for use without required permit.