

GPS Antenna Module

WGM-P8

- Integrated Real Time Kinematics (RTK) for fast time to market.
- Smallest, lightest and energy efficient RTK module.
- Complete and versatile solution due to base and rover variants.
- World leading GNSS positioning technology.



Performance Data WGM-P8 Series

Receiver Type	72-channel u-blox M8 engine, GPS L1 C / A, GLONASS L10F, BeiDou B1I
Update Rate	RTK up to 8 Hz 1, Carrier phase data up to 10 Hz
Position Accuracy	Standalone 2.0 m CEP, RTK 0.025 m + 1ppm CEP
Acquisition	Cold start 26s, Warm start 2s, Hot start 1s
Sensitivity	Cold start -148 dBm, Hot start -156 dBm Tracking -160 dBm, Reacquisition -158 dBm
Assistance	AssistNow GNSS Online, OMA SUPL & 3GPP compliant

Electrical Data

DC Supply	5V~28V
Power Consumption	Acquisition < 220mW, Tracking < 170mW

Interfaces

Serial Interfaces	UART / USB
Protocols	NMEA / UBX binary / RTCM
1PPS Output	Programmable duration and polarity

Dynamics

Velocity	Up to 500 m/s
Altitude	Up to 50,000 m (max)
Acceleration	Standard up to 4 g

Environmental Data

Operating Temp.	-40° C to +85° C
Storage Temp.	-40° C to +85° C

RoHS Compliant (lead-free)