

## GPS Antenna Module

WGM-U6

- u-blox 6 position engine:
  - Navigate down to -162 dBm and -148 dBm coldstart.
  - Faster acquisition with AssistNow Autonomous.
  - Configurable power management.
  - Hybrid GPS/SBAS engine (WAAS, EGNOS, MSAS).
  - Anti-Jamming technology.
- A-GPS: AssistNow Online and AssistNow Offline services, OMA SUPL compliant.



### Performance Data WGM-U6 Series

Receiver Type	50-channel u-blox6 engine, GPS L1 C / A code, SBAS: WAAS / EGNOS / MSAS / GAGAN
Update Rate	Up to 5 Hz
Position Accuracy	Standalone 2.5 m CEP, SBAS 2.0 m CEP
Acquisition	Cold start 26s, Warm start 3s, Hot start 1s
Sensitivity	Cold start -148 dBm, Hot start -157 dBm, Tracking -160 dBm
Assistance	AssistNow GNSS Online AssistNow GNSS Offline (up to 35 days), AssistNow Autonomous (up to 6 days)

### Electrical Data

DC Supply	5V~28V
Power Consumption	Acquisition < 350mW, Tracking < 220mW

### Interfaces

Serial Interfaces	UART / USB
Protocols	NMEA / UBX binary
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)