

LOCOSYS

RTK High Precision GNSS Module for Automotive/Industrial applications



MC-1612A-B2/G2

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GNSS Module



16 x 12.2 x 2.2 mm

HIGHLIGHTS

- ◆ Base on MediaTek AEC-Q100 certified chipset for Automotive Grade
- ◆ Capable of SBAS (WAAS, EGNOS, MSAS, GAGAN)
- ◆ Low power consumption
- ◆ Fast TTFF at low signal level
- ◆ Built-in 12 multi-tone active interference canceller
- ◆ Up to 10 Hz update rate
- ◆ ±10ns high accuracy time pulse (1PPS)
- ◆ Indoor and outdoor multi-path detection and compensation
- ◆ IATF 16949 quality control
- ◆ Superior smart power management for different application
- ◆ Advanced jamming and spoofing detection
- ◆ Support Qianxun SI Network (支持千寻地面增强系统)



SPECIFICATIONS

- Chip
- Frequency
- Update rate
- Sensitivity
- Acquisition Time
- Position Accuracy
- Max. Altitude
- Max. Velocity
- Protocol Support

MediaTek MT3303

GPS, GALILEO, QZSS: L1 1575.42MHz, C/A code

BEIDOU: B1 1561.098MHz, C code

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GLONASS : L1 1598.0625MHz, C/A code

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1Hz default, up to 10Hz.

Tracking up to -165dBm

Cold start up to -148dBm

Hot start (Open Sky) < 2s

Hot start (Indoor) < 30s (typical)

Cold Start (Open Sky) 31s (typical) without AGPS

< 15s (typical) with AGPS (hybrid ephemeris prediction)

Autonomous / SBAS 2.5m CEP / 2.5m (depends on accuracy of correction data)

< 18,000 m, up to 50,000m by request

< 515 m/s

NMEA 0183 ver 4.10 9600 bps⁽¹⁾, 8 data bits, no parity, 1 stop bits (default)

1Hz: GGA, GLL, GSA, GSV, RMC, VTG

Real-time Differential Correction RTCM SC-104 v2.x message types 1,2,3, and 9

LOCOSYS

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