



LOCOSYS

Complete, Innovative , High-Performance GNSS Solutions

HD Series

HD-1612-GA/BA

GNSS Module



16 x 12.2 x 2.2 mm

HD-1010-GA/BA

GNSS Module



10.1 x 9.7 x 2.2 mm

FEATURES

- ◆ HED high sensitivity solution
- ◆ Support GPS, GLONASS, GALILEO ,QZSS and BEIDOU
- ◆ Capable of SBAS (WAAS, EGNOS, MSAS, GAGAN, SDCM)
- ◆ Support 72-channel GNSS
- ◆ Fast TTFF at low signal level
- ◆ Support 1PPS synchronize with NMEA output
- ◆ Built-in DC/DC converter to save power
- ◆ Built-in LNA and SAW filter
- ◆ Up to 20 Hz update rate
- ◆ Supported antenna short circuit detection
- ◆ Support AGPS
- ◆ SMD type; RoHS compliant
- ◆ ISO/TS 16949 quality control

SPECIFICATIONS

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

HD8020

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

GLONASS : L1 1598.0625MHz, C/A code

HD-1612-GA / HD-1010-GA

BEIDOU: B1 1561.098MHz, C/A code

HD-1612-BA / HD-1010-BA

Support 72 channels

1Hz default, up to 20Hz.

Tracking

-160 dBm up to -161dBm (with external LNA)

Cold start

-146.5 dBm up to -148 dBm (with external LNA)

Hot start (Open Sky)

< 1s (typical)

Cold Start (Open Sky)

28s (typical)

Autonomous

2.5m CEP

< 18,000 m

< 515 m/s

NMEA 0183 ver 4.0

9600bps, 8 data bits, no parity, 1 stop bits (default)

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

LOCOSYS

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