



LOCOSYS

Automotive Dead Reckoning Technology

ST-1612-DB/DG

GNSS Module

ST-1612-DB/DG

GNSS Module



16 x 12.2 x 2.2 mm

HIGHLIGHTS

- ◆ Base on ST TESEO III Engine Chip
- ◆ Fully Automotive Dead Reckoning
- ◆ Supported Odometer and CAN bus input
- ◆ Integrated 3D Gyro and 3D accelerometer
- ◆ Multi- GNSS with triple constellation tracking
- ◆ Operating Temperature ranges from -40 to 85°C
- ◆ LOCOSYS ISO/TS16949 certificated production line



SPECIFICATIONS

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

STA8090 series

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

BeiDou: B1 1561.098MHz, C code

GLONASS : L1 1598.0625MHz, C/A code

ST-1612-DB

ST-1612-DG

Support 48 channels

1Hz default, up to 10Hz.

Tracking

up to -161dBm (with external LNA)

Cold start

up to -147dBm (with external LNA)

Cold Start (Open Sky)

37s (typical)

Autonomous

2m CEP

SBAS

1.8m (depends on accuracy of correction data).

< 18,000 m

< 515 m/s

NMEA 0183 ver 3.01

Real-time Differential Correction

115200 bps(1), 8 data bits, no parity, 1 stop bits (default)

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

RTCM SC-104 v2.x message types 1 and 9