

# Mini PCIe Embedded u-blox M8 GPS (G-Sensor)



## Main Feature

- Concurrent Reception of GPS/QZSS, GLONASS, BeiDou
- 72-channel u-blox M8 Engine w/Over 2 Million Effective Correlators
- -167dBm SuperSense® Acquisition & Tracking Sensitivity
- 10 Hz Position Update Rate
- Standard Mini PCIe V1.2 Full-Mini Card(USB2.0 Interface)
- Time To First Fix (TTFF) :

**MT326**

**Specifications**

**Receiver Type**

Chipset	u-blox M8
Frequency	GPS L1 C/A, SBAS L1 C/A, QZSS L1 C/A, GLONASS L1OF, BeiDou B1
Channels	Supports 72 Channels

**Sensitivity**

Tracking & Navigation	-167dBm
Acquisition	-160dBm
Cold Start (Autonomous)	-148dBm

**Time to First Fix(TTFF)**

Cold Start	26 sec
Warm Start	26 sec
Hot Start	1 sec
Aided Start	1 sec

**Accuracy**

Horizontal Position	Autonomous : < 2.5m CEP , SBAS : < 2.0m CEP
Accuracy of Timepulse	RMS 30ns
Signa	
Max Navigation	99% <60ns
Update Rate	10Hz (GPS&GLONASS), 18Hz (GPS)

**Output Message Format**

GPS Protocol	NMEA 0183 V4.0, UBX, RTCM2.3
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**Dynamic Conditions**

Velocity	< 500 m/s (972 knots)
Acceleration	<= 4g

**Environmental**

Operating Temp.	-40°C to +85°C, ambient w/ 0.6m/s airflow
Storage Temp.	-40°C to +85°C
Peak Supply Current	Max=150mA
Max Performance	Acquisitionnote2=74mA

Eco Mode	Trackingnote2= 43mA
Power Input	3.3V +-10% VDC input
Dimensions	51 x 30 (mm)

## Multipath Suppression

Intelligent Multipath Detection and Suppression

## G-Sensor

3-axis accelerometer

## A-GPS

Supports AssistNow® Online and Offline, OMA SUPL Compliant

## Ordering Information

Model	Description
MT326	Mini PCIe Embedded u-blox MB GPS (G-Sensor)

## Dimension

