VDB-801

Embedded u-blox6 GPS Gmouse Module USB Type

Features

- 50-channel u-blox6 Engine with Over 2 Million Effective Correlators
- -146dBm SuperSense® Acquisition and Tracking Sensitivity
- AssistNow Online and Offline A-GPS Services,OMA SUPL Compliant
- 100% Coverage with Continuous Position Fixes Even in Tunnels
- Highly Accurate and Reliable Navigation Performance
- Automatic Sensor Calibration and Temperature
- Operating Temperature : -40ºC to 80ºC

Receiver Type

Chipset	u-blox6
Frequency	GPS L1, C/A Code GALILEO L1 Open Service (with upgrade) SBAS : WAAS, EGNOS, MSAS, GAGAN
Channels	Supports 50 Channels

Sensitivity

Tracking & Navigation	-160dBm
Acquisition	-160dBm
Cold Start(Autonomous)	-146dBm

Time to First Fix (TTFF)

Cold Start	32 sec
Warm Start	32 sec
Hot Start	1 sec
Aided Start	< 3 sec

Accuracy

Horizontal Position	Position : <2.5m CEP, SBAS : <2.0m CEP
Max Navigation	99% <60ns
Update Rate	up to 5Hz (ROM) / 2Hz FLASH

Dynamic Conditions

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

Interface

Interface	USB 2.0 Type A
Baud Rate	9600bps

Output Message Format

GPS Protocol	NMEA 0183 GGA, GSA, GSV, RMC, VTG, GLL

Multipath Suppression

Intelligent multipath detection and suppression

A-GPS

Supports AssistNow® Online and Offline, OMA SUPL Compliant

Environmental Characteristics

Operating Temp.	-40ºC to +80ºC
Storage Temp.	-40ºC to +85ºC
Peak Supply Current	Max=150mA
Max Performance	Acquisition[note1]=74mA
Eco Mode	Tracking[note2]= 43mA
Power Input	3.3V ~ 5.5V DC Input
Dimensions	42x34x15 (mm)
Cable Length	3 Meter

Ordering Information

Part Number	VDB-801
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All specifications are subject to change without notice.