

GPS/GLONASS OEM USB Receiver

Adding GPS positioning functionality to your electronic systems is easy. Rojone offers a high performance OEM USB GPS receiver that will provide fast, cost effective and precise position fixes for a wide variety of applications.

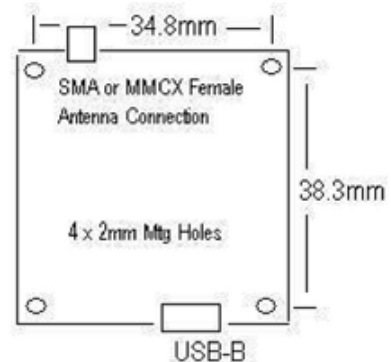
Features

- 72 Channel Ubox 8 engine
- <1 second time to first fix for hot start
- High immunity to jamming
- -167 dBm sensitivity in tracking mode
- RoHS compliant



Receiver Specifications

Chip	Ublox LEA-M8S (2014)
Frequency	L1, 1575.42 MHz & 1602-1615 MHz
C/A Code	1.023 MHz Chip
Position Accuracy ¹	Position 2.5mCEP, SBAS 2.0m CEP
Channels	72 up to 10Hz update rate
Sensitivity ³	Cold Start -148dBm, Hot Start -156dBm Reacquisition -160dBm & Tracking & Acquisition -167dBm
Acquisition Rate ¹	Hot Start 1.0 seconds average (Open Sky, Stationary) Aided Start ² 1.0 seconds average & Cold Start 27 seconds average
Timing Accuracy	Clear Sky < 20ns
Timing Pulse	0.25 Hz to 5 MHz
Velocity	500 m/s (approx. 1000 knots)
Power	5 Volt USB 150mW @3.0V Eco Mode, 160mW @ 3.0V Max without antenna connected
Serial Interface	SB V2.0 Full Speed 12Mbit/s Connector USB-B
Protocols	NMEA 0183 version 4.0, UBX binary, RTCM 2.3
Temperature	-40 to + 85 Degrees C, operating & storage temperature range
Size	39 x 42.5 mm + Connectors



Note

1. All SV @-130dBm
2. Dependent on aiding data connection speed & latency
3. With good external LNA

Order Code	G1OENU0XUSB01-170	SMA Female Antenna Connection
	G1OENU0XUSB01-310	MMCX Female Antenna Connection