

OEM USB GPS Receiver

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

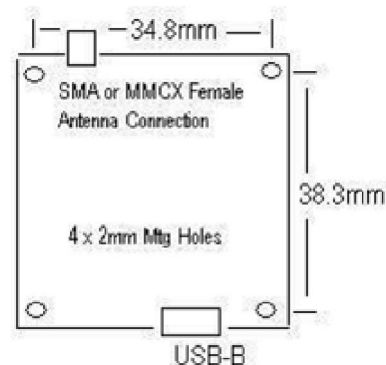


Features

- § 50 Channel Ubox 5 engine with over 1 million effective correlators
- § <1 second time to first fix for hot & aided starts
- § High immunity to jamming
- § -160 dBm sensitivity in tracking mode
- § GPS L1 C/A Code, Galileo L1 Open Service (with ublox upgrade)
- § SBAS: WAAS, EGNOS, MSAS, GAGAN.
- § RoHS compliant

Specifications

Chip	Ublox LEA-5H
Frequency	L1, 1575.42Mhz,
C/A Code	1.023 Mhz Chip
Position Accuracy ¹	Position 2.5mCEP, SBAS 2.0m CEP
Channels	50
Max update rate	4Hz
Sensitivity ¹	Cold Start -144dBm Reacquisition -160dBm Tracking & Acquisition -160dBm
Acquisition Rate ¹	Hot Start < 1.0 seconds average (Open Sky, Stationary) Warm Start 29 seconds average Aided Start ² < 1.0 seconds average Cold Start 29 seconds average
Timing Accuracy	RMS 30ns, 99% <60ns, Granularity 21ns
Timing Pulse	Configurable 0.25 to 1000Hz
Velocity	515 m/s (1000 knots)
Power	5 Volt USB 150mW @3.0V Eco Mode, 160mW @ 3.0V Max Performance without antenna connected. Active antenna 3 Volt required.
Serial Interface	USB V2.0 Full Speed 12Mbit/s Connector USB-B
Protocols	NMEA, UBX binary
Temperature Range	-40 to + 80 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 active antenna

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



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