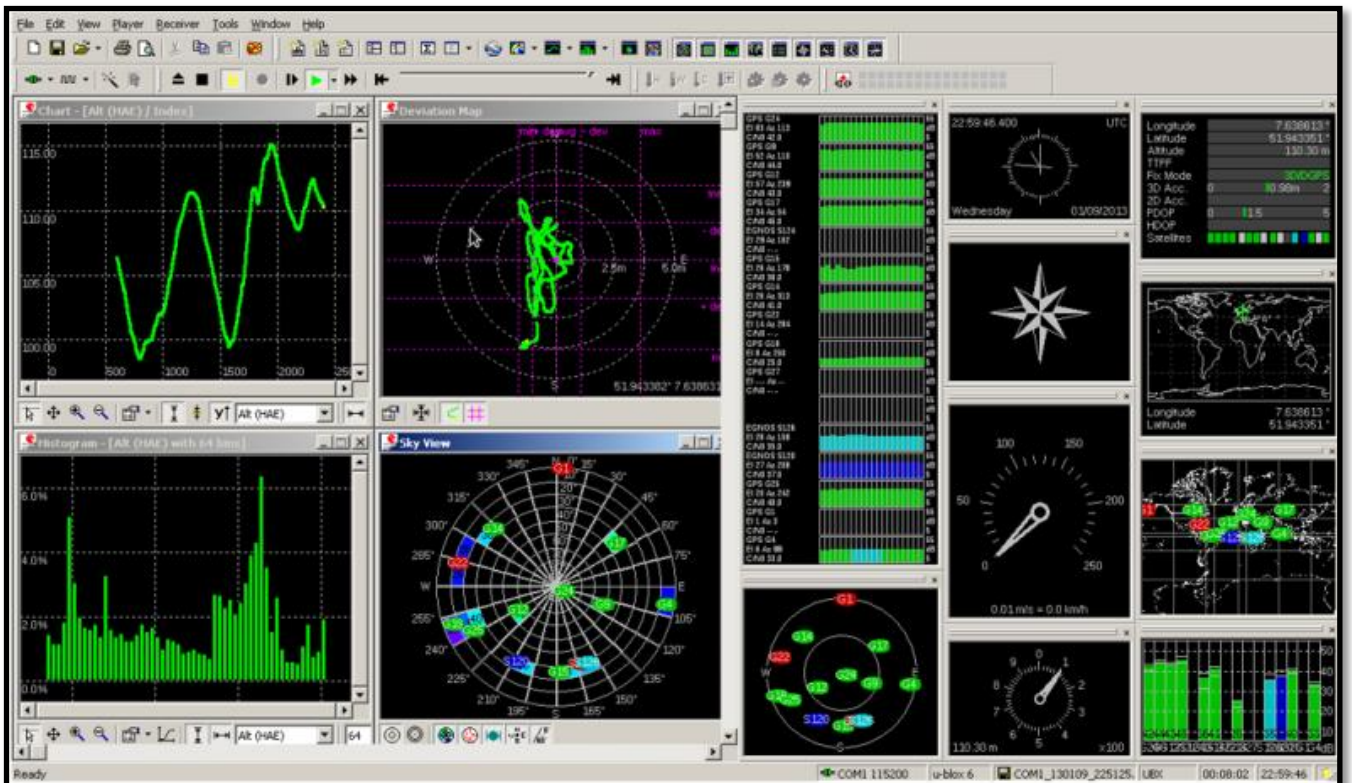
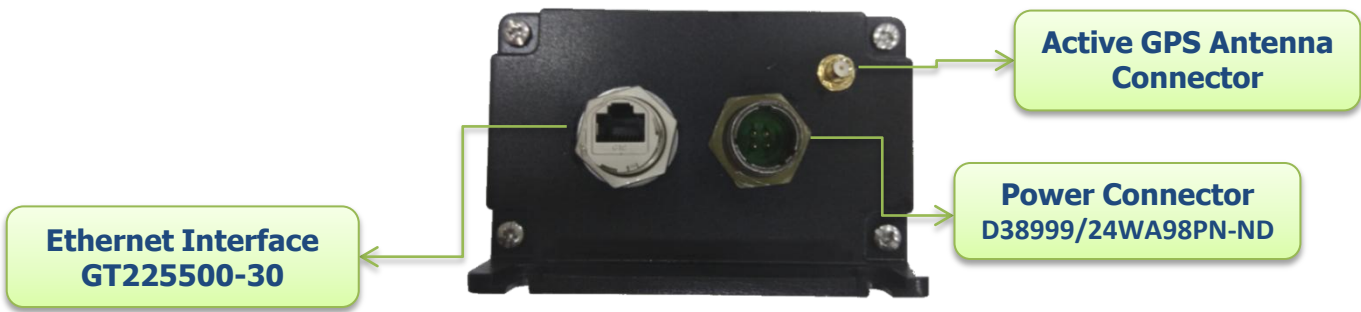


EUGPS-M8U

Rugged IP-67 EMC Shielded Ethernet UDR 3D-INS GPS

The unit provides continuous navigation under poor signal conditions or during complete signal loss for missions in tunnels and dense urban settings.

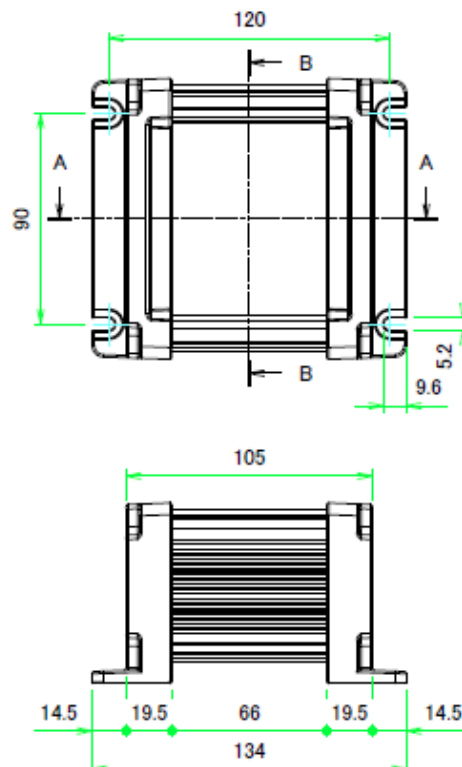
- Rugged Ethernet Interface
- Untethered Dead Reckoning (UDR)
- Continuous Navigation Under Poor Signal
- 3D motion, Direction & Elevation Sensors
- Satellite, Gyro & Accelerometer Data Fusion
- EMC Shielded IP67 Enclosure



Rugged IP-67 EMC Shielded Ethernet UDR 3D-INS GPS

GPS Specifications

Receiver Type	72-channel u-blox M8 engine GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1I, Galileo E1B/C SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
Nav. update rate	Up to 20 Hz
Position accuracy	2.0 m CEP
UDR position error	Typically <10% of distance covered without GNSS (up to 60s)
Acquisition	Cold starts: 26s Aided starts: 3s Reacquisition: 1s
Sensitivity	Tracking & Nav: -160 dBm Cold starts: -148 dBm Hot starts: -157 dBm
Oscillator	Crystal
RTC	Built-In
Sensor	Onboard accelerometer and gyroscope
Supported Antenna	Active/Passive
Raw Data	Code phase output
Odometer	Integrated in navigation filter
Geofencing	Up to 4 circular areas GPIO for waking up external CPU
Spoofing Detection	Built In
Signal integrity	Signature feature with SHA 256
Data Logger	Position, velocity, time, odometer
Voltage	5-32VDC
Protocols	NMEA, UBX
Interface	Ethernet



Dimensions: mm