

LOCOSYS RTK-M980 is the perfect solution for your high-precision positioning and navigation needs. Based on the multi-constellation, multi-frequency (L1/L2/L5).

A satellite positioning receiver capable of RTK (Real Time Kinematic) takes in the normal signals from the Global Navigation Satellite Systems (GNSS) along with a separate correction data stream to achieve improved positional accuracy.

RTK-M980 supports 1408 super channels and has built in an adaptive anti-jamming technology The positioning accuracy for RTK (RMS) is Horizontal: 0.8 cm + 1ppm and Vertical: 1.5 cm + 1ppm.



RTK Positioning



Bluetooth Low Energy



Global 4G-LTE



RTK Base station

Application

RTK-M980 is well-suited for high-precision surveying-grade applications, including surveying and mapping, precision agriculture, and deformation monitoring.

The solution is a perfect choice for demanding high-precision navigation and positioning use-cases like precision agriculture, unmanned aerial vehicles (UAV) and robotic lawn mowers.









Specifications



Features

Integrates RF, baseband and high precision algorithm

All-constellation multi-frequency RTK engine and advanced RTK technology

Best-in-class reliable and scalable position accuracy

Update rate: 1 Hz (Max: 50 Hz)

1408 super channels for simultaneous tracking of all visible supported satellite signals_



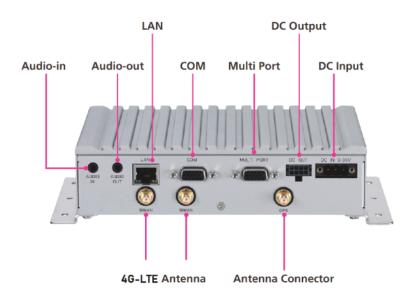
Constellation

GPS:	L1C/A, L1C, L2C, L2P(Y), L5
GLONASS:	G1, G2, G3
Beidou:	B1I, B2I, B3I, B1C, B2a, B2b
Galileo:	E1, E5a, E5b, E6
QZSS:	L1C/A, L1C, L2C, L5
NavIC:	L5
SBAS:	L1C/A

Additional Information

Dimensions (L,W,H) 185 x 120 x 45mm

Interface



Configuration List

Mobile Network	GSM / 3G / 4G-LTE
BluetoothLE	5.0
Battery	2500 mAh

Include

RTK-M980
L1 / L2 / L5 GNSS Surveying Antenna
Reinforced TNC-SMA Cable
SMA 4G-LTE、WiFi-BluetoothLE Antenna
USB-C Cable (A to C)
Quick Start Guide