

Link
ROBOTICS



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VINS-RTK

Product Technical Specifications

Dimensions	: 220 x 190 x 60 mm
Weight	: ~1 kg
Output rate and data	: 20 Hz position and orientation
Max. velocity	: 70 km/h with sensor fusion
Position error in case of GPS outage	: 1% (as a percentage of distance travelled)
Data formats	: ROS, Custom binary protocol



GNSS-related Specifications

Supported GNSS systems	: GPS/QZSS, Galileo, Beidou, GLONASS
GNSS Antenna Connector	: SMA
RTK Correction	: RTCM 3.x over NTRIP

Hardware Specifications

Computation Module	: Nvidia GPU Based SBC
Camera	: CMOS Camera with Global Shutter (CSI-2)
Inertial Measurement Unit	: Accelerometer, Gyroscope
Internal Storage	: 512 GB SSD
Interface	: Ethernet, CAN
SIM Card	: Nano SIM

Electrical Characteristics

Voltage input	: 12 V DC
Power consumption	: ≤ 30 W



VINS-RTK is a visual-inertial navigation system which has a sensor fusion engine extracting highly accurate and reliable 3D position and orientation information from a monocular camera, an inertial measurement unit and RTK-GNSS. The system can provide reliable localization information even if the GNSS signal is completely lost. It can work in normal GNSS and RTK-GNSS modes.

