

Multi-Sensor RTK Module

WITH ANAVS  SENSOR FUSION FRAMEWORK

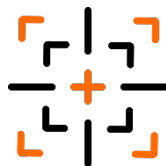
Dual-Frequency & Multi-Constellation GNSS for fast convergence time

Multi-Sensor fusion on a single board for Autonomous Vehicles, Robots, UAVs and Vessels

Interfaces to GNSS, INS, Odometry, Camera, Lidar, LPS and Barometer data



High rate solution output



Accurate attitude and position



Overcomes signal outages



Breakthrough price



Easy System Integration

SENSOR FUSION PERFORMANCE

Accurate Positioning (1σ):

Horizontal accuracy: 0.015 m + 1 ppm

Vertical accuracy: 0.030 m + 1 ppm

Accurate Attitude (1σ):

Accuracy: 0.25° (1m antenna spacing)

Velocity Accuracy: 0.03 m/s RMS

Time-Stamp Accuracy: 1 μ s RMS

Solution Output-Rate: up to 120 Hz

RTK Initialization:

Initialization Time: < 10 sec

Initialization Reliability: > 99 %

Solution Latency: < 30 ms

GNSS FEATURES

GNSS Constellations:

Galileo, GPS, Glonass,

Beidou, SBAS

GNSS Const. concurrent:

All

GNSS-Bands:

GPS L1C/A L2C,

GLO L1OF L2OF,

GAL E1B/C E5b,

BDS B1I B2I,

QZSS L1C/A L2C

Channels: 184

GNSS data rate: 20 Hz

Jamming detection: Yes

Timepulse-Output: Yes

MECHANICAL & ENVIRONMENTAL

Dimension:

227 x 169 x 56 mm

Weight:

1200 g

Temperature:

-40°C to $+85^\circ\text{C}$

ELECTRICAL & INTERFACES

Power Connector:

USB-C 5V or

Terminal connector up to 24V

Power Consumption:

Peak: 10 W (2 A)

Average: 6.5 W (1.3 A)

Communication Interfaces:

Ethernet, WLAN, CAN, UART, LTE

Output format:

Standardized: NMEA format

Proprietary: ANavS binary format



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