Multi-Sensor RTK Module

WITH ANAVS SENSOR FUSION FRAMEWORK

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

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

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)

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<tr>
<th>Feature</th>
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<tbody>
<tr>
<td>Velocity Accuracy</td>
<td>0.03 m/s RMS</td>
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<tr>
<td>Time-Stamp Accuracy</td>
<td>1 μs RMS</td>
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<tr>
<td>Solution Output-Rate</td>
<td>up to 120 Hz</td>
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**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

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<td>GNSS data rate</td>
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## ELECTRICAL & INTERFACES

**Power Connector:**
- USB-C 5V
- 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

## MECHANICAL & ENVIRONMENTAL

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