

IMU330BA Automotive Grade 6D0F IMU



The ACEINNA IMU330BA is a small form factor high-performance 6-DOF automotive grade inertial measurement unit. The IMU330BA features a 3-Axis Accelerometer and a 3-Axis Rate Gyroscope and is qualified to AEC-Q104 Class C qualified and suitable for use in demanding automotive applications requiring improved angle random walk and Bias Instability specifications. It is powered by a 32 Bit ARM Cortex-M4 CPU with Floating Point Unit. The IMU330BA can support customer system integration for Attitude and GPS-Aided Position-Velocity-Time (PVT) measurement.



IMU330BA

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IMU330BA - Automotive Grade 6DOF IMU

The ACEINNA IMU330BA is designed for use in high volume automotive Level 3 autonomous vehicles and ADAS systems requiring calibrated inertial measurement data. The IMU330BA combines high-performance 6DOF IMU functionality with the small, low-cost packaging to meet the challenging performance, reliability and cost requirements of the automotive market.

Applications

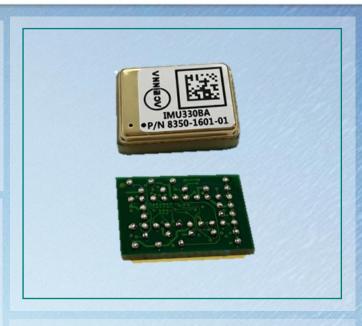
- Autonomous Vehicles
- Self-Driving Taxis/Delivery Vehicles
- ADAS
- Electronic Stability Control
- Lane Keep Assist











Features

- Automotive Qualified AEC-Q104, Grade 2
- Calibrated 3 axis MEMS Accelerometer with ± 8 g full scale range
- Calibrated 3 axis MEMS Angular Rate sensor with ± 400 dps full scale range
- ARM Cortex-M4 architecture
- SPI and UART interfaces
- Light Weight (2g)
- Small (11 x 15 x 4.7) mm package
- Wide Temp Range, -40C to +105C
- High Reliability, MTBF > 50k hours
- Pin Compatible with ACEINNA OpenIMU330BI

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