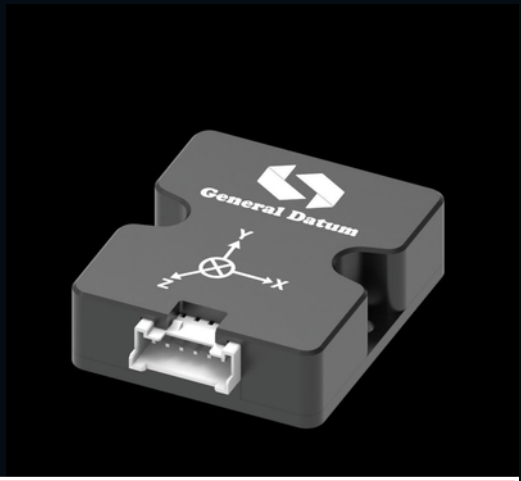
IMU / AHRS



Features	Specifications
System Architecture	Dual-array architecture with built-in redundancy and fault detection
Sensor Fusion	Advanced multi-sensor fusion for real-time orientation estimation
Design	Compact and lightweight embedded system
Motion Sensing	Simultaneous 3-axis angular velocity and linear acceleration measurement
Magnetic Field Sensing	3-axis magnetic field measurement
Barometric Sensing	Integrated pressure sensor for pressure and altitude estimation
Health Monitoring	Built-in health monitoring and sensor diagnostics
Data Output Formats	Configurable ASCII and Binary formats
Data Synchronization	Sensor data-ready interrupts for synchronized, time-aligned sampling
Factory Calibration	Bias, scale factor, cross-axis sensitivity, and hard/soft iron compensation
Temperature Compensation	Individually temperature-compensated sensors across the full operating range
Communication Reliability	CRC-protected data output for reliable communication
Output Data Rate (ODR)	Configurable output data rate