

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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C-MIGITS® III

Applications

The C-MIGITS® III has a wide variety of applications.



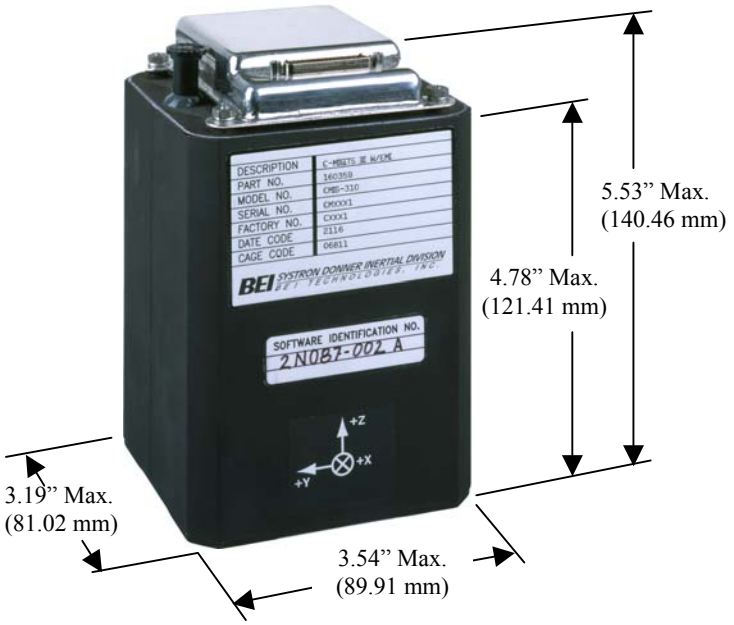
- Position Sensor for Geo-Surveying
- UAVs and Other Unmanned Vehicles
- Targets and Drones
- Ground Vehicle Tracking
- Range Instrumentation
- Targeting and Positioning
- Precision Antenna Pointing
- Attitude Reference



Description

The **C-MIGITS® III** offers a unique combination of the BEI Systron Donner Inertial Division solid-state Digital Quartz Inertial Measurement Unit (DQI) and the Jupiter™ LP commercial Global Positioning System (GPS) receiver. DQI's micromachined quartz rate sensors and vibrating quartz accelerometers, plus the Jupiter's single board 12-channel Coarse/Acquisition (C/A) Code GPS engine, offer an extremely small, lightweight, low-cost solution. Tightly coupled in C-MIGITS III, these two innovative technologies provide a powerful, synergistic Guidance, Navigation & Control system.

Miniature Integrated GPS/INS Tactical System



Features

- **Low-Cost Integrated INS/GPS Solution for Many Applications**
- **Small, Lightweight Design; Fits in 5-Inch Diameter Enclosures**
- **Optimized 28-State Kalman Filtered Navigation Solution**
- **Durable Design for High-Vibration Environments**
- **Programmable Output Allows for Data Combinations Specific to a User’s Needs**

PHYSICAL CHARACTERISTICS		
Size (Volume)	54.0 in^3	
Weight	2.4 lbs. (1.1 kg)	
Power	+ 28 Vdc at 18 watts	
I/O	RS-232, AMRAAM IMU output, Host Vehicle I/O	
Reliability@ 35°C	52,248 hr MTBF, ground; 9,900 hr MTBF, missile	
SYSTEM PERFORMANCE		
	C/A Configuration	
Position (SEP)	3.9 m	
Velocity (1 sigma, horiz/vert)	0.1/0.1 m/s	
Attitude (1 sigma)	1.0 mrad	
Heading (1 sigma, in motion)	1.5 mrad + d [1]	
Time (1 sigma)	1 µs	
	Gyro	**Accelerometer**
Bias - In run stability from turn -on (1 sigma)	1-3 °/hr	200 µg
Random Walk Noise (1 sigma)	0.035 °/√hr	60 µg /√Hz
ENVIRONMENTAL		
Temperature Range	-40 to +71°C (operating)	
Vibration	6-12 g rms (performance-endurance)	
Shock	20g, 11 ms	
Operating Range	±1000 °/s [2]; 8-15g (performance-endurance)[3]; Up to 1,000 m/s [4]	
NOTES: [1] d represents a growth rate that depends on the time since horizontal accelerations, 2 to 3 deg/hr 1 sigma. [2] Angular Rate [3] Acceleration [4] Velocity (GPS rated to 500 m/s)		

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BEI SYSTRON DONNER INERTIAL DIVISION
BEI TECHNOLOGIES, INC.

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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