

MA61C CubeSat



SMART, SEAMLESS, AND MODULAR INTEGRATION FOR CUBESAT MISSIONS

The MA61C CubeSat Command & Data Handling (C&DH) system is a smart, plug-and-play solution designed for seamless integration. The radiation-hardened, universal onboard computer and payload controller are designed for effortless integration in CubeSats. It effortlessly connects multiple subsystems, ensuring smooth operation from development to deployment.

Compatible with

- AOCS sensors & actuators
- Communication subsystems
- Power & payload systems

Key Benefits

- 50% Faster Design & Integration
- 30% Reduction in Development Costs
- Significantly Increase Scalability of Advanced CubeSat Fleets

What's in the MA61C EGSE Package?

- MA61C Board
- Debug Cable
- USB with Windows API & GUI Manuals

Why Choose MA61C CubeSat

- Simplifies hardware integration with automatic device recognition & self-configuration

- Manages complex data transfers between subsystems

- Enables rapid mission scalability with modular, ready-to-use technology

- Speeds up design & supply chain processes, reducing time-to-space

- Reduce System Maintenance with Embedded Plug-and-Play Drivers

**Simplify and accelerate your mission with
smart and plug-and-play technology!**

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Technical Specs

Powerful Processing & Precision Control

- Processor: GR712RC dual-core LEON3 fault-tolerant SPARC V8 (50 MHz)
- Multi-Interface Support: Operates multiple I/O interfaces simultaneously
- Built-in Timer: High-accuracy oscillator-driven operations

Optimized Onboard Memory

- 64Mbit SRAM, 64Mbit FLASH, 3Gbit SDRAM
- Stores software & critical mission data

Compact and lightweight

- Size: 95.89mm x 90.17mm
- Weight: 150g
- Temperature Range: -40°C to +85°C
- IPC-3 standard quality

Advanced Connectivity & Interfaces

- High-speed data transmission over multiple interfaces, including:
 - SpaceWire - Up to 200 Mbit/s
 - CAN-bus - 1 Mbit/s
 - I2C - 0.4 Mbit/s
 - SPI - 20 Mbit/s
 - RS232, RS422, RS485
- Multiple connectivity options
- USB Debug Port
- Ensures reliable system diagnostic

User-Friendly System Monitoring

- Real-time data routing, conversion, and buffering



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