

MA61C EGSE



VERSATILE INTERFACE ADAPTER ENABLING PLUG&PLAY AND SEAMLESS TESTING OF SUBSYSTEMS AND PAYLOADS

The MA61C EGSE is an intelligent, plug-and-play Electrical Ground Support Equipment (EGSE), designed to seamlessly integrate multiple satellite subsystems with onboard computers. Its modular, pre-configured software accelerates spacecraft development, enabling efficient hardware and software validation before launch.

Compatible with

- AOCS sensors & actuators
- Communication subsystems
- Power & payload systems
- Software applications via USB

Key Benefits

- Reduce integration effort & complexity
- Intuitive Plug-and-Play Interface
- Built-in drivers for effortless integration

What's in the MA61C EGSE Package?

- MA61C EGSE board
- Debug cable
- USB with Windows API & GUI Manuals

Why Choose MA61C EGSE

Direct Hardware Commanding:

Connect directly to your payload—test flight hardware in real-time for optimized mission reliability.

User-Friendly GUI for Seamless Control:

- Easy-to-use Windows-based interface
- Minimal training required – ideal for rapid adoption
- API support for automated monitoring & command execution

Automated Subsystem Recognition:

Self-configuration minimizes manual setup

**Smart, seamless, and scalable testing
for spacecraft systems.**

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Technical Specs

Intelligent Processing & Memory

- Processor: GR712RC dual-core 32-bit LEON3 fault-tolerant SPARC V8 (50 MHz)
- Memory: 80Mbit SRAM + 64Mbit FLASH for software & data storage
- Precision Timing: Built-in oscillator-driven timers for accuracy

Fast & Flexible Connectivity

- Multi-interface support: Communicates with multiple subsystems simultaneously
- Plug-and-Play Testing: Pre-installed embedded drivers for instant operation

High-Speed Data Interfaces

- SpaceWire: Up to 200 Mbit/s
- CAN-bus: 1 Mbit/s
- I2C Interface: 400 Kbit/s
- MIL-STD-1553B Interface: 1 Mbit/s
- RS232 & RS422: Up to 250 Kbit/s & 20 Mbit/s

Compact & Robust

- Size: 130mm x 130mm x 32mm
- Weight: Approx. 315g
- Power Supply: +5V DC Input
- Status LEDs: Power, Reset, Clock

Integrated I/O Interfaces

- MIL-STD-1553B, SpaceWire, CAN-bus, RS232, RS422, I2C, GPIO, JTAG
- Debug-Friendly: Mini-USB JTAG interface for troubleshooting



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