MA61C ⟩ SMALLSAT
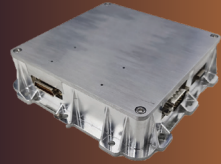
SMART, SEAMLESS, AND SCALABLE INTEGRATION FOR SMALL SAT MISSIONS

The MA61C SmallSat is an intelligent, plug-and-play Command and Data Handling (C&DH) system, built to simplify small satellite integration.

It is an advanced interface control unit for seamless connectivity of digital and analog components in SmallSat.

MA61C effortlessly connects multiple subsystems, automates data routing and conversion, and ensures real-time monitoring—empowering manufacturers to accelerate their journey to space.

Compatible with
AOCS sensors & actuators
Communication subsystems
Power & payload systems

Key Benefits
50% Faster Design & Integration
30% Cost Reduction in
Development Costs
Modular – Designed for Mission
Scalability

What's Included in the MA61C SmallSat Package?
MA61C Board
Debug Cable
USB Drive with Windows API & GUI
Manuals

Why Choose MA61C SmallSat
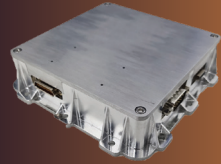Auto-detects and configures
connected hardware

Routes, converts, and buffers
subsystem data

Pre-installed drivers for true plug-and-play integration

Streamlines satellite design, supply
chain, and system integration

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

MA61C

SMALLSAT

Technical Specs

**Powerful Processing
& Mission-Ready Reliability**

- Processor: GR712RC dual-core LEON3 fault-tolerant SPARC V8 (50 MHz)
- Multi-interface support: Connects multiple satellite subsystems simultaneously
- High-precision onboard timer: Synchronizes operations seamlessly

Robust Onboard Memory

- 64Mbit SRAM
- 64Mbit FLASH

**High-Speed Connectivity
for Seamless Data Flow**

- SpaceWire: Up to 200 Mbit/s
- CAN-bus: 1Mbit/s
- I2C Interface: 0.4Mbit/s
- SPI Interface: 20Mbit/s
- RS422/RS485: Up to 10Mbit/s
- Debug Port: 1Mbit/s

Full System Control with API & GUI

- Intuitive Windows-based GUI for real-time monitoring
- API compatibility for full mission customization

**Compact, Lightweight
& Space-Proven Durability**

- Operating Temperature: -40°C to +85°C
- Quality: ISO Standard
- Size: 105mm x 105mm (PCB)
  131mm x 131mm x 30mm (Casing)
- Weight: 435g

Onboard Interfaces for Total System Interoperability

- 2x SpaceWire (Micro-D, 9-pin female)
- 2x CAN-bus (Dsub9 male)
- 1x MIL-STD-1553B (RT/BC/MT, Dsub9 male)
- 5x RS422 & 1x RS485 (MDM-25 female)
- 9x GPIO + 16x Analogue Inputs (MDM-37 male)
- 1x Power & 1x JTAG (Dsub-9)
- I2C Master, SPI Master, 6x PWM (MDM-15 male)

SPIN

Simplify Space Manufacturing

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