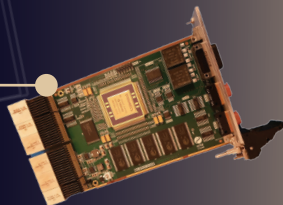


MA61C

CPCI



PLUG-AND-PLAY INTERFACE BOARD OPTIMISED FOR SPACE-GRADE COMPACT CPCI BACKPLANE SYSTEMS

The MA61C cPCI is an intelligent, plug-and-play Command & Data Handling (C&DH) I/O board system that seamlessly integrates multiple satellite subsystems with a cPCI serial space processing unit. Its modular architecture ensures efficiency, scalability, and reliability, making it a critical component for future constellations such as EU Copernicus missions.

Why Choose MA61C CPCI

- Auto-detects and configures new hardware
- Routes, converts, and monitors subsystem data
- Pre-installed drivers for true plug-and-play functionality
- Accelerates spacecraft design, integration, and deployment

Compatible with

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

Key Benefits

- 50% Faster Design & Integration - Reduce development time significantly
- 30% Cost Reduction - Lower expenses for satellite manufacturing
- Modular Scalability - Adaptable technology
- Simplified Supply Chain Management - Standardized components for seamless procurement

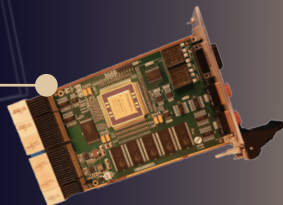
What's in the MA61C CPCI Package?

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

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

MA61C

CPCI



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
- Built-in Timer: Onboard oscillator ensures precision timing

Optimised Onboard Memory

- 80Mbit SRAM
- 64Mbit FLASH
- Stores software & critical mission data

High-Speed Connectivity for Seamless Data Flow

- SpaceWire: Up to 200 Mbit/s
- CAN-bus: 1Mbit/s
- I2C Interface: 0.4Mbit/s
- RS232 & RS422: Up to 250 Mbit/s & 20 Mbit/s
- Debug Port: 1Mbit/s

Compact, Lightweight & Space-Proven Durability

- Operating Temperature: -40°C to +85°C
- Quality: ISO Standard
- Size: 160mm x 100mm
- Weight: 300g
- cPCI Serial Space Backplane Compatible

Full System Control with API & GU

- API & Windows-based GUI for real-time monitoring
- Automated data routing, conversion, and buffering

Onboard Interfaces for Total System Interoperability

- 2x CAN-bus (Backplane)
- RS422 & RS232 (MDM-25 Female)
- 1x I2C Master (Backplane)
- 4x GPIO (MDM-25 Female) & 10x GPIO (Backplane)
- 4x SpaceWire (2 Front Panel - Micro-D 9 Female, 2 Backplane)



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