



Space Products and Innovation (SPiN)

Italy · founded 2015 · spinintech.com

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Space Products and Innovation (SPiN)

Space Products and Innovation (SPiN) was founded in 2015 with the goal of simplifying satellite manufacturing through modularity. The company's core innovation, MA61C (Multipurpose Adapter Generic Interface Connector), is a plug-and-play intelligent data node built around a GR712RC dual-core LEON3-FT SPARC V8 processor that automatically adapts between the communication interfaces and protocol standards of different subsystem suppliers and the onboard computer, eliminating manual configuration and driver installation. SPiN offers MA61C in several configurations - CubeSat, SmallSat, and cPCI-Serial-Space variants - alongside an Electronic Ground Support Equipment (EGSE) tool for bench-testing satellite subsystems, and a modular system-engineering service to help manufacturers design satellites using a plug-and-play, model-based approach. SPiN is among the first companies to offer a commercial cPCI-Serial-Space product, selected by ESA and the European Commission as a candidate backplane standard for upcoming Copernicus missions. The company has flown its technology in orbit: MA61C achieved flight heritage on the SPiN-1 CubeSat mission (launched May 2022 on SpaceX Transporter-5) and on the PHOENIX-1 re-entry capsule developed with Atmos Space Cargo. SPiN is also developing a modular, closed-loop ADCS for small satellites in partnership with ESA and GMV. Headquartered in Italy, SPiN has been supported by the ESA Business Incubation Centre (BIC) Bavaria, Techstars Allied Space Accelerator, Hyperspace Challenge, Fit4Start, and Cassini Business Accelerator, and received seed funding led by Galaxia (the Italian Technology Transfer Hub on Aerospace, powered by CDP Venture Capital) with participation from Obloo Ventures, Scientifica Venture Capital, and Innova Venture. The co

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SERVICES

Services

Digital Integration Support

SPiN provides expertise in digital integration to help customers resolve any digital compatibility issues.

Satellite Integration Solution

SPiN offers a satellite integration solution to transform satellites into modular systems, using model-based system engineering and the MA61C intelligent data node.

System Engineering

SPiN offers bespoke, all-inclusive system engineering services to support projects from modular satellite design and integration to ADCS integrated software and subsystems integration.

Product catalogue



SPACE PRODUCTS AND INNOVATION (SPIN)

MA61C cPCI

Plug-and-play Command and Data Handling system integrating multiple subsystems with a cPCI Serial Space processing unit; candidate backplane for ESA/EC Copernicus missions.

Interfaces supported	SpaceWire, I2C, CAN, RS422, RS232, MIL-STD-1553B, GPIO
Form factor	cPCI Serial Space
Processor	GR712RC dual-core 32-bit LEON3-FT SPARC V8
Memory	64 Mbit SRAM, 64 Mbit FLASH
Host interface	USB (API + Windows GUI included)
Programme relevance	Candidate next-generation backplane selected by ESA/EC for upcoming Copernicus missions

[price on request](#) [datasheet](#)



SPACE PRODUCTS AND INNOVATION (SPIN)

MA61C CubeSat

Plug-and-play Command and Data Handling (C&DH) unit for CubeSats, based on the PC/104 standard, with flight heritage (TRL 9).

Interfaces supported	SpaceWire, I2C, SPI, CAN, RS422, RS485, RS232, GPIO
Mechanical standard	PC/104
Processor	GR712RC dual-core 32-bit LEON3-FT SPARC V8
Memory	64 Mbit SRAM, 64 Mbit FLASH
Host interface	USB (API + Windows GUI included)
Flight heritage	TRL 9 - flown on SPiN-1 CubeSat (launched 25 May 2022) and ATMOS Space Cargo PHOENIX 1 (la

[price on request](#) [datasheet](#)



SPACE PRODUCTS AND INNOVATION (SPIN)

MA61C EGSE

Plug-and-play Electronic Ground Support Equipment for monitoring and commanding satellite subsystems directly from a PC over USB.

Interfaces supported	SpaceWire, I2C, CAN, UART, MIL-STD-1553, GPIO
Host interface	USB
Software	Integrated API and Windows GUI for commanding and monitoring

[price on request](#) [datasheet](#)



SPACE PRODUCTS AND INNOVATION (SPIN)

MA61C SmallSat

Plug-and-play Command and Data Handling (C&DH) unit for small satellites, adding MIL-STD-1553 support for higher-complexity missions.

Interfaces supported	SpaceWire, MIL-STD-1553, I2C, SPI, CAN, RS422, RS485, GPIO
Processor	GR712RC dual-core 32-bit LEON3-FT SPARC V8
Memory	64 Mbit SRAM, 64 Mbit FLASH
Host interface	USB (API + Windows GUI included)

[price on request](#) [datasheet](#)

Contact Space Products and Innovation (SPiN)

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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