ZIN Technologies

Single Board Computer (SBC)
Model: SBCFA1000

ZIN Space Qualified Single Board Computer (SBC)

PROCESSOR
Based on a Leon3FT processor capable of 30DMIPS w/ 125MHz clock

FEATURES
RS-422 for C&DH interface
3 high precision 16-bit ADC channels
8 additional 12-bit ADC channels

MEMORY
512 KB EEPROM
32 KB Primary SuROM
2 MB SRAM

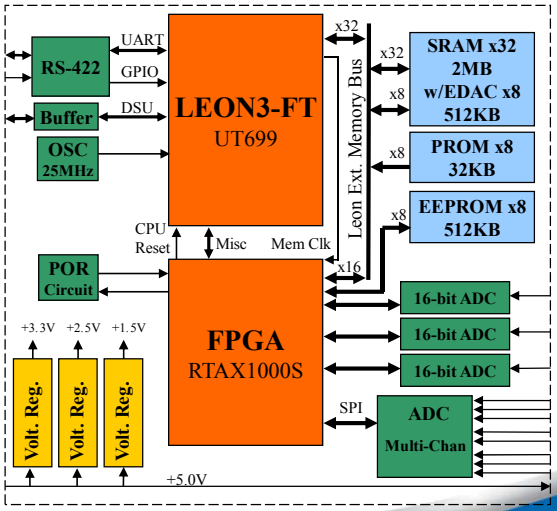
FULLY TESTED AND QUALIFIED
EEE Parts Control per EEE-INST-002
Radiation Hardened to 100Krad TID
Temperature
-30°C to +65°C (Acceptance)
-40°C to +70°C (Qualification)

SIZE / WEIGHT
5" L x 4" H

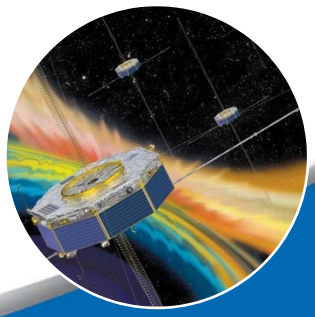
ZIN SBC's currently operating on NASA's Magnetospheric Multiscale Mission

ZIN Technologies is a proven provider of single board computers for Class A/B missions. The ZIN solution offers a TRL-9 flight qualified architecture that has a wide range of digital communications interfaces, and programmable digital logic options.

The ZIN SBC for space is our answer to the space industry's need for payload processing interfaces. Based around a Leon3FT processor with a high-performance dual-precision IEEE-754 FPU, the design is capable of processing three channels of high-precision analog sensor channels along with 8 additional analog channels. The ZIN SBC's powerful processing capability and high availability make it the ideal choice for data processing or spacecraft control applications.



- **The ZIN SBC is designed to offer highest possible reliability. Based around a Leon3FT processor the design is capable of 30DMIPS and 4MFLOPS.**
- **Designed for the radiation environment of NASA's Multiscale Magnetospheric Mission, the ZIN SBC offers a robust system with very high reliability.**
- **With the Actel RTAX FPGAs to provide flexibility, the ZIN SBC can be easily customized to accommodate additional interfaces and expanded memory capacities.**
- **The design accommodates a range of Actel RTAX FPGAs to provide extensibility.**
- **Space-Rated design meets EMC, Shock, Vibration, Thermal Vacuum, Outgassing, and EEE-INST-002 parts control requirements.**



ZIN Technologies Inc.
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ZIN Technologies, Inc.

Founded in 1957, ZIN provides engineering services and products to NASA and the aerospace industry. ZIN has managed the development of Mission Critical Class A/B space flight hardware (aerospace/space systems) from formulation, design, and development through to fabrication, integration, testing, verification, and mission operations.

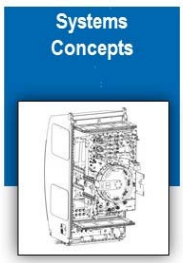
Our experience includes the development and validation of new technologies (sensors, inertial navigational measurement units (IMUs), composites, advanced acoustic resonant attenuation, optics, power, additive manufacturing and wireless/RF).

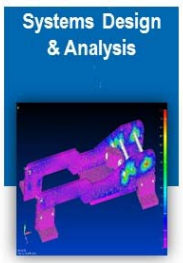
ZIN provides hardware and service for ISS research investigations, space launch systems, satellite systems, and space based human research projects enabling future space and science missions.

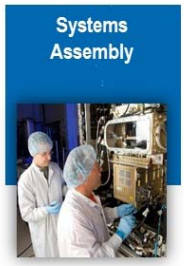
NSF-ISR Registered to AS9100

Focus on Quality - Certified and Compliant with Industry and Government Quality Standards

OUR PRODUCTS & SERVICES







- **Minority Owned-SDB**
- **AS9100 Certified**
- **DCAA Approved Forward Pricing**
- **Headquartered Cleveland Ohio**
- **Award Winning Capabilities**

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