MAC

Modular Avionic Computer

NIRON
Systems & Projects

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The **Modular Avionic Computer (MAC)** is an advanced avionics system designed to support multiple solutions and sensor suites, weapon release, and Chaff and Flare Dispensing capabilities.

The **MAC** is a flexible, rugged, low power consumption platform, providing a wide array of avionics applications where rapid implementation, easy integration and high performance are required.

System Description

Built around a state-of-the-art digital computer, the highly versatile MAC performs as a general purpose, I/O, video, voice and graphics processing platform.

The MAC supports both military and civil communications standards, such as MIL-STD-1553B, ARINC 429, RS-422, Ethernet, USB, RS-232 and more. The I/O configuration can be tailored to any specific application and customer requirements.

Typical Applications

The highly versatile and easily upgradeable MAC platform can serve as a mission computer and enables managing a wide variety of applications, including:

- Stores & Weapon release
- Chaff and Flare Dispensing
- Display processing
- Digital map display

Software Development Process

The software architecture ensures complete user independence, with direct access to data, full control and ownership of the source code and documentation.

If needed, Niron will work closely with user's software team to assist in the development of software applications according to customer specifications, transfer knowledge, or execute the entire software development project as a turnkey solution.

Technical Specifications

Qualification…….....MIL-STD-810F

EMI/RFI…….....MIL-STD-461E

Power supply for .....MIL-STD- 704A

Operational service life …Over 50,000 hours

Useful service life……..Over 25 years

Open Software Architecture

- Standard layered software implementation
- Application-level software interfaces the hardware through an Application Programming Interface (API), buffering application software from the low-level hardware and software implementation
- The API allows for future upgrades with no impact on the application
- The API can be easily expanded to accommodate platform-specific functionality and performance requirements

About Niron Systems & Projects

Niron Systems & Projects is a recognized provider of sophisticated technological solutions for defense and Homeland Security applications. With many years of accumulated experience backing a strong command of the most advanced modern technologies, company engineers specialize in the development and production of integrated solutions for a variety of manned and unmanned airborne, ground, and surface naval platforms. These include control systems for weapon delivery and Chaff & Flare Dispensing Systems; mission and communication computers; display and switching units; hardware and software solutions for real-time systems.

The company also provides unique turnkey project management and ongoing customer support services for non-standard technological programs requiring close professional accompaniment.

Niron Systems & Projects is certified to ISO 9001:2008 and ISO 90003:2004.

Contact us

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