



Strategic/Tactical Airborne Recorder

6U VME Solid State Memory System | *"Non-volatile Flash Storage"*

PRODUCT DESCRIPTION

The S/TAR™ family of products includes a set of 6U VME modules that may be configured in a variety of VME chassis types to create a flexible storage system with an architecture adapted to meet a variety of system requirements. Modules can be embedded into:

- Existing Chassis Types
- Existing Sensors or Host Systems
- New Development Systems

FEATURES

- Non-Volatile Solid State Memory
- Stand Alone or Integrated Systems
- High Capacity Memory Modules (8, 16, 32 or 64 GBytes)
- Continuously Variable Data Rate I/O (up to 100 Mbytes/Sec per port)
- Supports 1 to 10 Interface Ports
- Embedded Control or RS-422/232 Command Protocol
- Low Power (10 - 25 Watts per port)
- Utilizes Reed-Solomon Error Management
- Simultaneous Record/Play
- Flexible File Directory Annotation Permits Event Marking
- Rugged, Conduction Cooled Modules
- Suitable for Severe Environments
- Full Diagnostics and Built-In-Test for Ease of LRU Replacement
- Software Engineering Services

APPLICATIONS

- Embedded Systems
- Laboratory - Airborne/Ground
- Customized Solutions



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- **Saves**
 - Size
 - Weight
 - Power
- **Includes**
 - APIs
 - GUIs

PLATFORMS/SYSTEMS

- Classified
- Seismic and Acoustic Processors
- Electronic Warfare
- IMINT - USAF, C-26B
- Special Forces
- Outage Buffer
- Ocean and Oil Exploration

EMBEDDED MEMORY SYSTEM



PHYSICAL CHARACTERISTICS

Size: 6U VME
Weight: 1.0 to 1.5 lbs. per Module
Power: 10 Watts per I/O Module
5 Watts per Memory Module
Cooling: Conduction/Forced Air

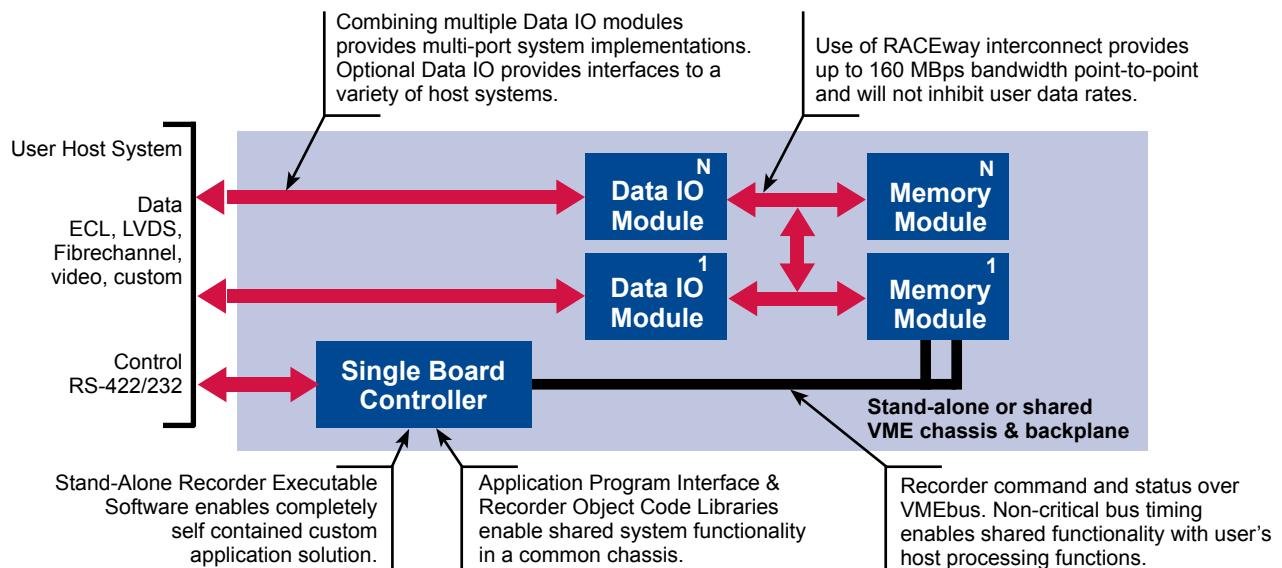
INTERFACES / MODES

- **Data:** Parallel/Serial ECL
Parallel/Serial LVDS
Fiber Channel, Video, Custom, Ethernet
- **Control:** RS-422/232 or Embedded
- **Power:** 115 VAC or 28 VDC
- **Modes:** Tape Emulation or Solid State

PERFORMANCE CHARACTERISTICS

- **Storage Capacity:** 8, 16, 32 or 64 GByte Modules
- **Data Rate-Record:** 100 Mbytes/sec per Port
- **Data-Rate Play:** 100 Mbytes/sec per Port
- **Record Ports:** 1 to 10
- **Playback Ports:** 1 to 10
- **Bit-Error Rate:** 10^{-12}

Multiple Data I/O or Memory modules may be configured in a chassis to provide a wide variety of user input types, data rates, and memory capacities. Local host control of the recording system can be implemented utilizing a standard slot 0 VME controller. The controller interface to the host is over RS-422/232 and software provides a complete set of command and status responses to the host. The controller communicates to the S/TAR modules over the VME64 bus to control the data flow in record and replay operations. Custom API software and Object Library Routines are provided to co-exist with the user's own VME based system.



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