

# Palletized Avionics Instrumentation System (PAIS)

A MIL-SPEC, distributed multiprocessor, VME based instrumentation system.



**ITT**

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# Palletized Avionics Instrumentation System (PAIS)

The Palletized Avionics Instrumentation System (PAIS) is a MIL-SPEC, distributed multiprocessor, VME based instrumentation system. Housed in a single full ATR chassis, PAIS collects, filters, time stamps and records data from various sources including MIL-STD-1553B and high speed digital. The VME architecture's inherent growth capability allows for collection of many different types of data from multiple data sources. Collection of individual data parameters from each data source is completely user definable. Once collected, data is recorded on SCSI compatible devices via SCSI interface.

The PAIS is user controlled through a Programmable Pushbutton switch control panel. The control panel is utilized to sequence the user through various control and status menus. These menus are customized for the required user function.

## Applications

Palletized Avionics Instrumentation System PAIS provides a single integrated palletized avionics instrumentation system. Collects multiple MIL-STD-1553 and high speed parallel bus data simultaneously.

**Operational Testing** - supports multi-mission testing. Single sorties can accomplish multiple test objectives vs multiple sorties and multiple instrumentation systems to accomplish the same test objectives.

**General Purpose Instrumentation System** - PAIS architecture supports a wide variety of instrumentation interfaces for almost any instrumentation requirement.

## Features

- Modular 6U VME Architecture
- MIL-SPEC Boards, MIL-STD 704E Power Supply
- Power PC Processors
- Vx-Works Operating System
- Menu Driven Programmable Pushbutton User Interfaces
- Simultaneous Recording of Multiple MIL-STD-1553 Busses
- User Selection of Data Parameters to Be Recorded
- SCSI Interface to Multiple Storage Devices
- Accepts Various IRIG Modulated Inputs
- Extensive Built-In-Test and Self Diagnostics
- Palletized installation

## Characteristics

### Physical

- One 13 Slot Full ATR Chassis' (ARINC 404A)
- MIL-SPEC Connectors
- Cooling Fan
- Pallet: 25 in. wide x 30 in. deep x 10 in. high
- Total weight including LRUs is 130 pounds

### Electrical

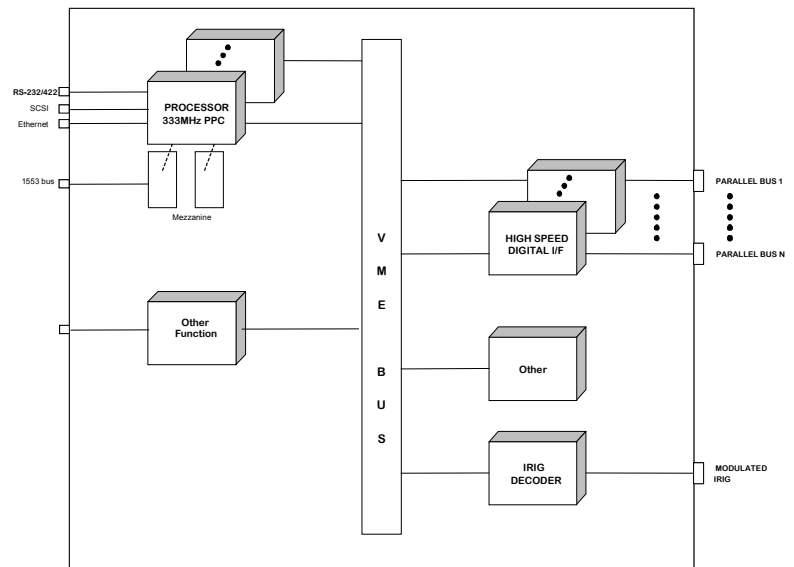
- MIL-STD- 704E Power Supply
- Wide Band Power Input 115 VAC, 47-440 Hz

### Environmental

- Temperature: -55° C to 85° C
- Altitude: 50,000 Feet
- Humidity: 0% to 100% RH

### Vibration

- Sinusoidal: 5G's/5 to 2000 Hz
- Random: 12G's/20 to 2000 Hz



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