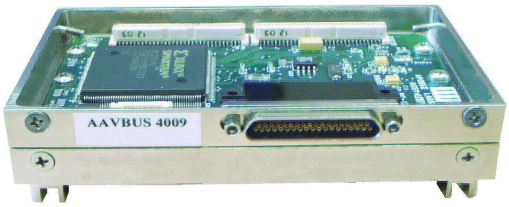
4009
AAVBUS1 MIL-STD-1553 BUS INPUT MODULE



FEATURES

- MIL-STD-1553 A/B bus compatible
- Four channel input
- Each channel redundantly monitors A & B paths
- Transformer and resistor isolated inputs
- Support for other buses may be custom applied
- Full module control and monitoring
- Micro D-37 pin connector interface

OVERVIEW

The AAVBUS1 module is designed to monitor up to four MIL-STD-1553 A/B buses. Each input to the AAVBUS1 is transformer isolated and may be individually enabled or disabled. The module accumulates the traffic on each enabled input bus (both the A and B paths) and produces digital packets of information that are then merged to the AL4000 multiplex bus.

The AAVBUS1 module converts the MIL-STD-1553 signal to digital data and clock. The data is then converted from Manchester II to NRZ-L. The synchronization patterns are replaced by a three-bit codes and then packetized and multiplexed for transport.

The 4009 AAVBUS1 is used in conjunction with the Apogee Labs' 2069 ABO1 module.

SPECIFICATIONS

GENERAL

- Four input channels of MIL-STD-1553
- Each channel consists of A & B busses
- Each channel is independently enabled
- Monitors both A & B busses on each channel
- Transformer and resistor isolated inputs
- Dual height module (0.8" x 2.5" x 4.0")
- Power consumption: 3.75W

COMPLEMENTARY HARDWARE

- 2069 ABO1

OPERATION

- Module ID only required setup
- Each channel has independent enable/disable option
- Compatible with 1ms and 10ms sample intervals