

## Bus Adapter Unit

### DESCRIPTION

The Bus Adapter Unit (BAU) is a state-of-the-art, off-the-shelf interface unit, which allows ARINC 429 hardware to be used in a MIL-STD-1553B environment.

The BAU takes ARINC 429 data and discrete signal inputs and converts them to MIL-STD-1553B. It also receives MIL-STD-1553B data and converts it to ARINC 429 data. The BAU is housed in an ARINC 600, 3 MCU chassis for ease of installation and is qualified for rugged military environments. In addition, the software contained in the BAU Type is verified to DO-178B level A, which makes it capable of handling flight critical data.

The BAU can handle up to 16 ARINC 429 High/Low Speed inputs and 64 discrete inputs and provides 8 ARINC 429 High/Low Speed outputs. The unit acts as a remote terminal to transmit and receive over a dual redundant MIL-STD-1553B Data Bus. The BAU Type is powered by 28 VDC and/or 115 VAC.

Mechanical construction of the BAU is based upon the extremely reliable AMETEK Airborne Vibration Monitoring unit in-service on all B777 aircraft.

The unit can be configured via the MIL-STD-1553B bus for a variety of operating configurations, providing flexibility in data handling characteristics and ARINC 429 bus speeds.



### FEATURES

- ✓ Converts ARINC 429 data and discrete signal inputs to MIL-STD-1553B data
- ✓ High/Low Speed ARINC 429 outputs
- ✓ Software per DO-178B level A
- ✓ Powered by 28 VDC and/or 115 VAC

# Bus Adapter Unit

## SPECIFICATIONS

### Inputs:

- (16) ARINC 429 (High/Low Speed)
- (32) Open/Ground discretes
- (32) Open/28V discretes
- (1) MIL-STD-1553B dual remote terminal

### Outputs:

- (8) ARINC 429 (High/Low Speed)
- (1) MIL-STD-1553B dual remote terminal

Power: +28 VDC and/or 115 VAC per MIL-STD-704

### Temperature:

-40° to 131°F (-40° to 55°C), short-term 159°F (71°C)

Environment: Per DO-160/MIL-STD-810/MIL-STD-462

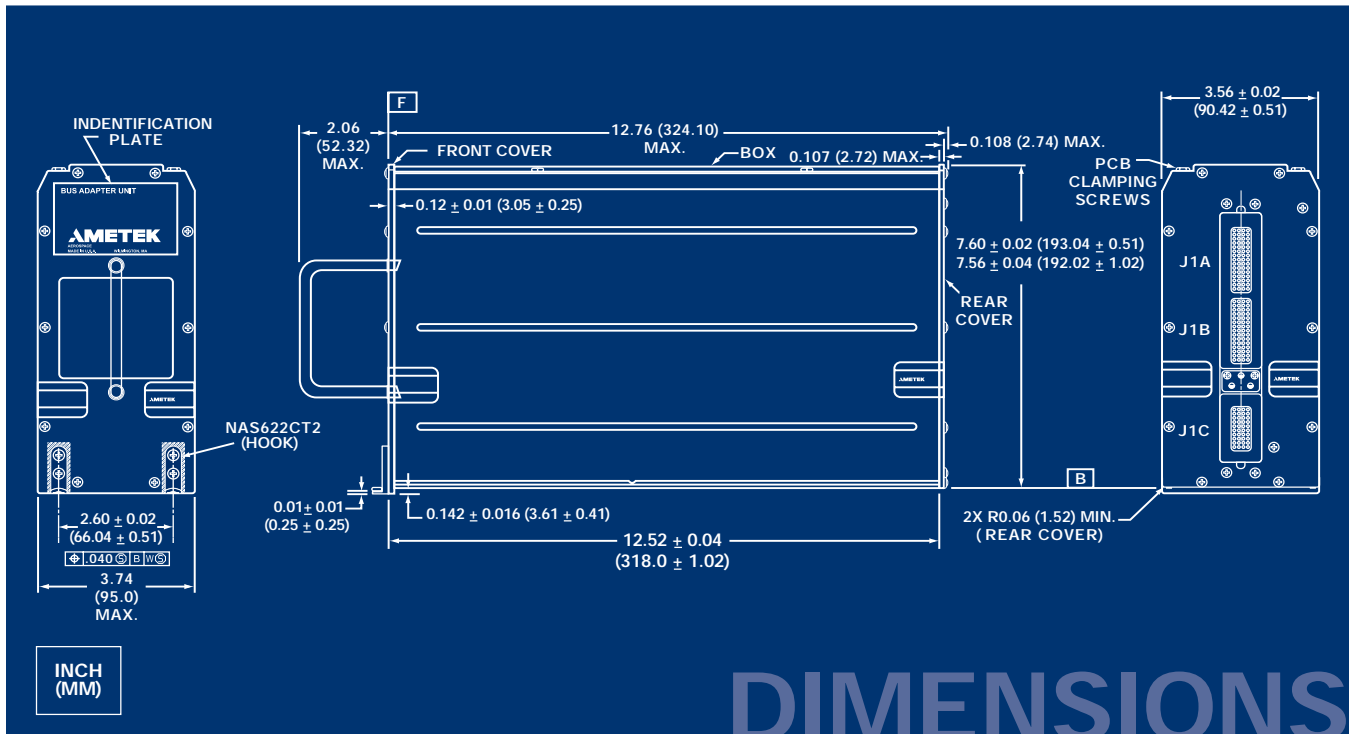
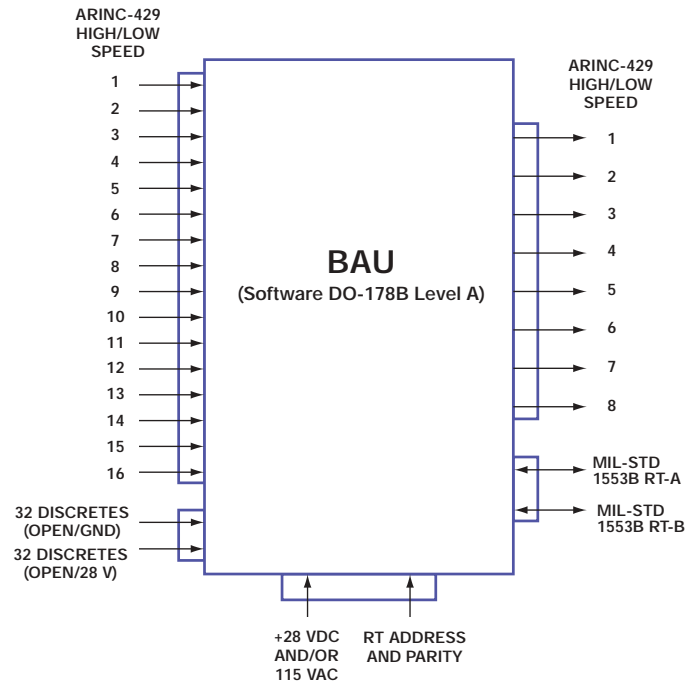
Software: DO-178B verification level A

Power Consumption: 10.7 watts maximum

Weight: 6.8 lbs. (7.26 kg) maximum

Cooling: No cooling required

## SCHEMATIC DIAGRAM



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