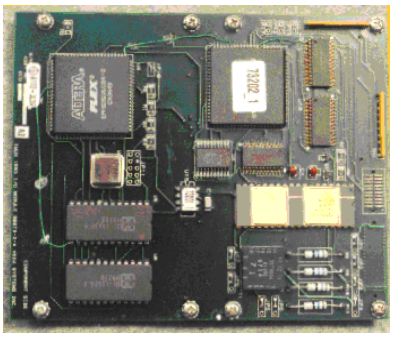
1553 Input/Output Submodules
1553-407-01 and 1553-408-01

Features

- **Transformer and Direct-coupled**
- **Up to 4 Channels per Quadraplex Card**
- **Up to 60 Channels per System**
- **Timing Accuracy's to 20 microseconds**

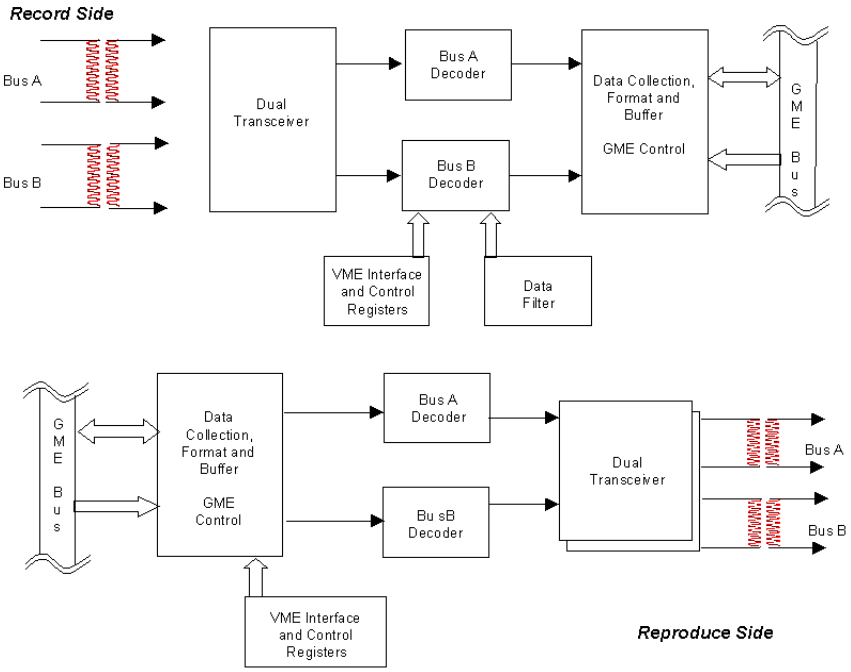


Introduction

The 1553 Input and Output modules support the full 50,000 word/second data rates of MIL-STD-1553, A and B. The 1553 daughterboard interface cards plug into the Quadraplex board in both the airborne and laboratory chassis. Full software support is provided for both transformer-coupled and direct-coupled interfaces to the bus.

The MIL-STD-1553 input and output interface boards also support short-stub and long-stub coupling as well as the ability to filter data with subaddress and remote terminal-level label selection.

Up to 60 channels of MIL-STD-1553B with 20 microsecond timing accuracy are supported with the system architecture.



Inputs (407-01)	Sources	Standard dual-redundant buses
	Data Interface	Direct-coupled
		Transformer-coupled
		Short stub
		Long stub
	Signal Levels	1.0V to 14.0V peak-to-peak, transformer coupled
		1.4V to 20.0V peak-to-peak, direct-coupled
	Input Codes	MIL-STD-1553B Manchester encoded stream
	Operating Range/Card	1 Mbps
	Operating Range/System	Up to 512 Mbps
Processing	Data Selection	Selectable data by subaddress and/or remote terminal levels
Outputs (408-01)	Sources	Standard dual-redundant buses
	Data Interface	Direct-coupled
		Transformer-coupled
		Short stub
		Long stub
	Signal Levels	1.0V to 14.0V peak-to-peak, transformer coupled
		1.4V to 20.0V peak-to-peak, direct-coupled
	Output Codes	MIL-STD-1553B Manchester encoded stream
	Operating Range/Card	1 Mbps
	Operating Range/System	Up to 512 Mbps
Electrical & Environmental	Form Factor	Quadraplex submodule, dual
	Connectors	Motherboard I/O
	Indicators	Channel active FIFO overflow
	Operating Temperature	32 ºF - 158 ºF (0 ºC - 70 ºC)
	Storage Temperature	14 ºF - 185 ºF (-10 ºC - 85 ºC)
	Operating Altitude	0 – 10,000 Feet (0 – 3,100 meters)
	Storage Altitude	-1,000 – 20,000 feet (-300 to 6,200 meters)
	Humidity	20 – 95% noncondensing

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