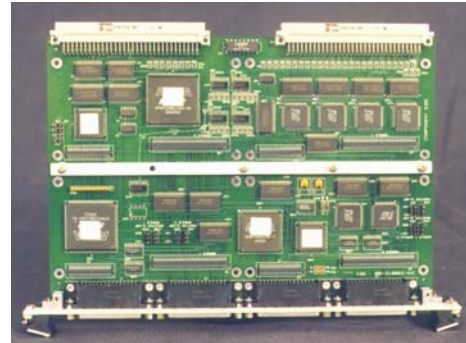


Quadraplex Input/Output Motherboard QPLX-323 and QPLX-325

Features

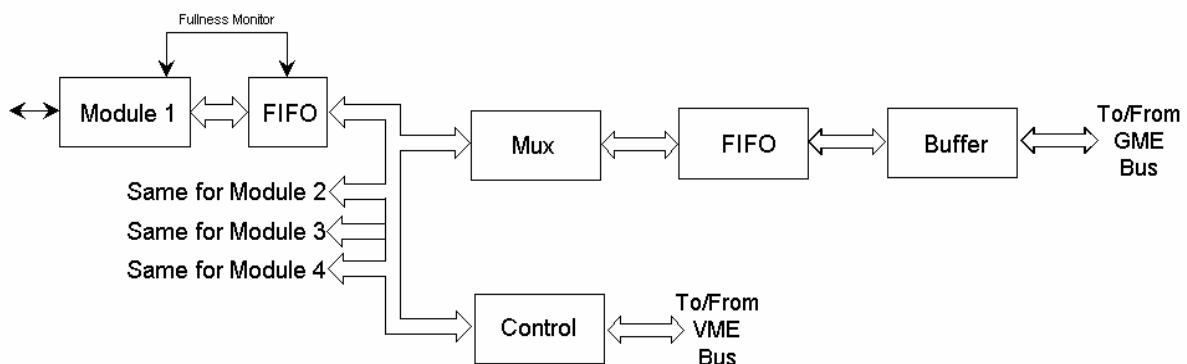
- Supports Analog, PCM, RS-232, RS-422, Parallel, Voice, and MIL-STD-1553B
- Support Timing Accuracy's to 1 Microsecond
- Up to 60 Data Channels per System
- Throughput to 512 Million Bits/Second



Introduction

The Quadraplex Input/Output motherboard supports a wide array of “personality” modules for signal input and DATA reconstruction. This motherboard/daughterboard architecture supports easy configuration, allowing quick and easy selection of input signal type and data rates. The 6U VME Quadraplex card has four connectors onboard to receive the series of submodules for both analog and digital signals, up to 25 million samples/second, as well as computer formats such as RS-232 and MIL-STD-1553B.

The dynamic memory-mapping system onboard the Quadraplex card maximizes system throughput by constantly adjusting overhead for efficiency and in support of programmable data reconstruction timing. The input/output of the Quadraplex also supports both mux/demux operations and mux/computer-read operations, offering the user today's operations with tomorrow's technology architecture.



Inputs	Data Input	4- to 32-bit data, 4- to 16-bit tag from GME Bus	
	Operating Range Card	Up to 480 Mbps	
	Operating Range/System	Up to 512 Mbps	
	Maximum Cards/System	Up to 15 per system	
	Output Sources	Up to 4 IMUX submodules	
	Data Reproduction	PCM to 20 Mbps	
		Analog to 1 MSPS	
		Parallel to 10 MSPS	
		RS-232 to 38.4 Kbaud	
		RS-422 to 38.4 Kbaud	
Processing	Data Patterns	Auto-adaptive data sorting	
	System Throughput	50 Mbytes per second	
	Outputs	Sources	Up to 4 submodules
		Data Sources	PCM
			Analog
			Parallel
			RS-232
			RS-422
			Voice
			MIL-STD-1553B
		ARINC 429	
		ARINC 626	
Electrical and Environmental	Maximum Cards/System	Up to 15 per system	
	Operating Range/Card	Up to 512 Mbps	
	Operating Range/System	Up to 512 Mbps	
	Form Factor	Single-slot, 6U VME	
	Connectors	D-subminiatures	
	Indicators	Channel active and FIFO overflow	
	Operating Temperature	32 °F- 158 °F (0° - 70 °C)	
	Storage Temperature	14 °F - 185 °F (-10 °C - 85 °C)	
	Operating Altitude	0 to 10,000 feet (0 – 3,100 Meters)	
	Storage Altitude	-1,000 – 20,000 feet (-300 – 6,200 meters)	
	Humidity	20 –95% noncondensing	
Ordering Codes	QPLX-323	Quadraplex Input/Output Mother Board	
	QPLX-325	Quadraplex Input Only Mother Board	