

Quadraplex Input/Output Motherboard

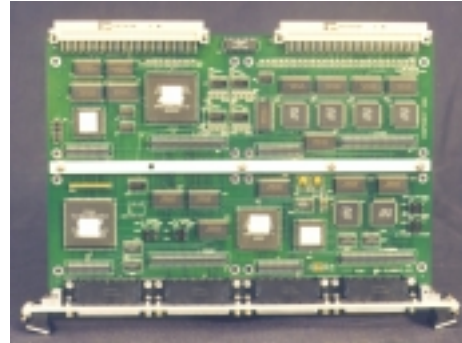
QPLX-323

QPLX-325

Specifications

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.



QPLX-323 and QPLX-325

Specification

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 Voice MIL-STD-1553B to 1 Mbps	
	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 Ethernet	
	Maximum Cards/System	Up to 15 per system	
	Operating Range/Card	Up to 512 Mbps	
	Operating Range/System	Up to 512 Mbps	
	Electrical and Environmental	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)	
Ordering Codes	Humidity	20 –95% noncondensing	
	QPLX-323	Quadraplex Input/Output Mother Board	
	QPLX-325	Quadraplex Input Only Mother Board	