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VGM1



User Manual Data Sheet

Features:

- A16 Addressing Mode
- D32 (BLT) D16 Data Transfer Rate
- Software Programmable IRQ1-7 Interrupt Capability
- Software Programmable D08 (0) Interrupt Vector Capability

The VGM1 has been developed specifically to support the needs of precision sensitive data acquisition functions. particularly high throughput systems where performance degradation through noise contamination can significantly reduce digitisation accuracy. DC to DC analog power supplies are provided to simplify system integration and protect the sub-system from high frequency conductive noise typically observed on VME. high performance. back plane power supplies.

VGM1 provides VME D32 (BLT) data access and a D32 (BLT) VSB bus mastership capability as standard. The VGM1 has a VXI compatible register based memory map for simple and consistent driver implementation. Key acquisition process status is available via register polling or software programmable VME interrupt capability.

SPECIFICATION

VGM1 MOTHERBOARD

Board Type	Slave
Addressing Modes	A16
Data Transfer Capability	D32 (BLT) D16
Data Transfer Rate	15 Mbytes/s (typical)
Interrupt Capability	IRQ1-7 (Software Programmable)
Interrupt Vector Capability	D08 (0) (Software Programmable)
Control Registers	A16:D16. VXI compliant: Static Device Type
Signal Drive Current	As defined by ANSI/IEEE 1014-1987
Signal Loads	As defined by ANSI/IEEE 1014-1987

Sole Master Mode	VGM1 only VSB bus master (no separate VSB arbiter)
Default Mode	More than 1 VSB bus master (VSB slot 1 arbiter required)
Address Range	Full 32 bit address capability System space
Data Transfers	D32 Block Transfer Multiple Blocks Supported
Data Transfer Rate	30 Mbytes/s (typical) Power Requirements
VME (VGM1)	+5v @ 1.5A maximum
VGX (Solution)	3A (typical)

Transfer Rate	160 MB/sec (maximum)
Protocol Compatibility	FPDP Protocol Connector Details
Connector Type	Standard FPDP type connector Mechanical Details
Form Factor	6U (when mounted on a VGX motherboard)
Solution Requirements	1 slot (when mounted on a VGX motherboard)

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