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GT64-MS
Scanner Multiplexer

Overview

General

The GT64-MS is a high-density switching card that supports 64-single ended (independent) channels or 32 differential (Hi/Lo) Channels.

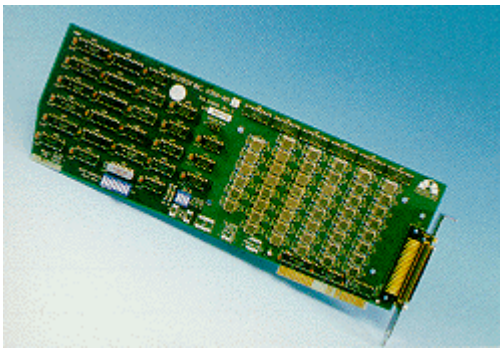
Four internal scan groups permit users to configure the GT64-MS to multiple configurations depending on test requirements.

Direct Bus Mode

Scanning modules A through D are accessible through Bus A, Bus B, Bus C, and Bus D. In this mode, the Scan Module is utilized for differential scanning or multiplexing only. Eight differential channels are available in this mode.

Universal Bus Mode

In this mode, each scan module may be utilized for differential and single-ended switching. The Universal Bus Mode extends the scanning and multiplexing capability to 16 channels per module.



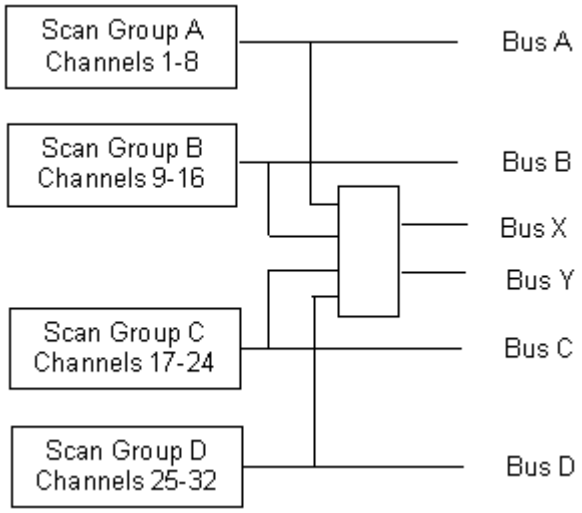
Features

- 1 x 32 Differential Channels
- 1 x 64 Single-Ended Channels
- Four individual switching groups permit multiple configurations
- Occupies one 8/16 bit slot

Applications

- Automatic Test Equipment
- Data Acquisition
- Process Control Systems
- Hi-Density Switching Systems

Archecture



Specifications

The following table outlines the specifications of the three GT64-MS versions. The commercial version comes with plastic molded DIP reed relays and is suitable for most commercial applications. The Hi-REL version comes with quasi-military relays and is suitable for industrial applications. The military version comes with a metal-can, QPL TO-5 package relays, and mil-spec ICs, and is suitable for harsh-environment industrial applications or military applications.

	GT64-MS-C	**GT64-MS-I**	**GT64-MS-M**
Contact Specifications	**Commercial**	**Hi-REL**	**Military**
Relay Contact Resistance	<0.2	<0.15	<0.1
Contact Life Rating at low level at 28 Vdc @ 0.5A	$5x10^6$ Typ. $5x10^6$ Typ.	$5x10^6$ Typ. $5x10^5$ Typ.	$1x10^7$ Typ. $1x10^6$ Typ.
Switchable Voltage - Maximum	100 VDC	250 VDC	250 VDC / 115 VAC
Switchable Current	0.2 Max	0.5A Max	0.5A Max
Contact Carry Current	0.5 Max	1.0 A Max	1.0 A Max
Operate Time	1 mS Max	6 mS Max	2 mS Max
Switching Frequency	10 MHz	20 MHz	20 MHz
Release Time	75 S Max	3 mS Max	1.5 mS Max

Power Requirements			
Operating Voltage	+5 VDC	+5 VDC	+5 VDC
Power Consumption	950 mA Typ 1.05 A Max	950 mA Typ 1.25 A Max	950 mA Typ 1.25 A Max

Environmental			
Temperature Operating Storage	0 to +40 C -10 to +70 C	0 to +50 C -20 to +70 C	-20 to +80 C -40 to +125 C
Vibration	5g at 500Hz	10g at 500Hz	25g at 3KHz
Shock ½ Sine	5g for 6mS	20g for 6mS	55g

Physical			
Size - Full size slot	13.25" x 4.875"	13.25" x 4.875"	13.25" x 4.875"
Weight	12 oz.	1 Lb.	1 Lb.

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