

GX6032

GENASYS MATRIX SWITCH INTERFACE MODULE, 32 X16

- Rear I/O module provides access to the GX7016's and GX7017's J5 bus
- 32 x 16 matrix GENASYS switch card
- Provides access to internal 16 wire switching bus
- Software control via SwitchEasy



OVERVIEW

A component of the GENASYS switching subsystem, the GX6032 switch card is one of several different switch cards which can be installed in the GX7016 and GX7017 chassis to provide access to the chassis' internal, 16-wire bus. The GENASYS switching subsystem offers a new level of high performance, high density switching for board and system level functional test. Based on the 6U PXI architecture, the GX7016 and GX7017 chassis incorporate a modular switch matrix and multiplexer architecture which supports up to 4608 or 2304 multiplexed, hybrid I/O pins respectively. The GX7016 supports up to 128 external resources and the GX7017 supports up to 64 external resources, which can be connected to any of the test system's receiver I/O pins via a high performance, internal 16 wire matrix bus.

DESCRIPTION

The GX6032 provides access to external analog instrumentation which can be routed to the internal 16-wire analog bus via the module's 32 x 16 matrix. This module is installed in the rear of the GENASYS chassis. Up to 4 GX6032 cards can be installed in a GX7016 chassis. Two cards can be accommodated in a GX7017 chassis.

SOFTWARE

Control of the Gx6032 is provided via Marvin Test Solutions' SwitchEasy which provides overall control and management of signal routing within the system. SwitchEasy provides end to end signal routing by having the user simply define the resource and receiver pin or UUT connections, simplifying overall application development and deployment time.

APPLICATIONS

- GENASYS switching subsystem
- Automated system test applications
- High I/O count, mixed-signal test applications

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SPECIFICATIONS

GX6032 SPECIFICATIONS	
Configuration	16 x 32 matrix
Max number of cards in system	4, GX7016 chassis 2, GX7017 chassis
Inputs	32 analog instrument inputs
Outputs	16 (connects to internal 16-wire bus)
Relay Specifications	Max AC pk or DC voltage 170 V Max DC or AC pk carry current: 1A Max DC or AC pk switching current: 0.5A Max. contact rating: 10 W
Signal Bandwidth	
Input to Output	> 20 MHz
I/O Connections	
External I/O	16 coaxial connections (Positronics BD8W8F85R70T0/AA)
ENVIRONMENTAL AND COMPLIANCE	
Operating	0 °C to +50 °C
Storage	-20 °C to +60 °C
Weight	1.8 lbs
Relative Humidity (operating)	5% to 80% RH, non-condensing
Relative Humidity (non-operating)	5% to 95% RH, non-condensing
Altitude (operating)	Up to 2000 M
CE Compliance	EN61010-1 (pending) EN61326 (pending)

Note: Specifications are subject to change without notice

ORDERING INFORMATION

GX6032	GENASYS Matrix Switch Rear Interface Module, 32 x 16
CHASSIS	
GX7016	GENASYS Switching Subsystem with SCOUT 6U Receiver
GX7017	GENASYS Switching / Digital Subsystem with SCOUT 6U Receiver
GX7017-01	GENASYS Switching / Digital Subsystem with SCOUT 6U Receiver, HV Input Power Configuration