

GX6192



GENASYS HIGH FREQUENCY MULTIPLEXER / MATRIX SWITCH CARD, 192 X 16 X 16

- High frequency matrix / multiplexer switch card, compatible with GENASYS switching subsystem (GX7016/GX7017)
- Extended 6U design offers a "cable-less" test system interface



OVERVIEW

A component of the GENASYS switching subsystem, the GX6192 switch card is one of several different switch cards which can be installed in the GX7016 or GX7017 chassis. 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 GENASYS architecture incorporates a modular switch matrix and multiplexer architecture which supports up to 4608 multiplexed, hybrid I/O pins. Up to 128 external resources can be connected to any of the test system's receiver I/O pins via a high performance, internal 16 wire matrix bus. For high frequency switching applications, the GX6192 offers 192 connections to the receiver interface. The GX7016 and GX7017 chassis incorporate the MAC Panel 6U SCOUT receiver with each switch card providing a "cable-less" connection to the receiver connectors, - eliminating the need for cable harnesses and the associated reliability issues that come with cabled solutions. The result is a system interconnect design that is cost effective, reliable, and maintainable.

DESCRIPTION

The GX6192 provides signal routing from the GX7016's or GX7017's internal backplane to the receiver interface as well as providing an alternate, high bandwidth connection to 16 external instrumentation resources. The GX6192 MultiMatrix™ switch card is an extended 6U PXI module with direct connection to the receiver interface. The module combines a 16x16 matrix with (16) 1x12 multiplexers, providing a total of 192 high performance I/O pins at the receiver interface. HF resources are connected directly to the GX6192 via an external connector. In addition signals can be routed to / from the HF switch card to other switch cards in the system via the system's internal 16 wire bus.

See GX7016 or GX7017 for more information regarding GXCHASSIS and GXSW software provided with this card. For end to end to signal routing, Marvin Test Solutions' SwitchEasy is used to control and manage overall signal switching. 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

SOFTWARE



GX6192



SPECIFICATIONS

GX6192 SPECIFICATIONS	
Configuration	16 x16 matrix with (16) 1:12 multiplexers
Max number of cards in system	18, GX7016 chassis 9, GX7017 chassis
Inputs	16 internal analog bus and 16 external connections
Outputs	192
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 (input switch card to HF switch card output)	> 100 MHz
I/O Connections	
Receiver	Dual 200 pin connector
External I/O	16 coaxial connections (Positronics BD8W8F85R70T0/AA)
Form Factor	Extended 6U, single slot
ENVIRONMENTAL AND COMPLIANCE	
Operating	0 °C to +50 °C
Storage	-20 °C to +60 °C
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
Weight	3.4 lbs
CE Compliance	EN61010-1 (pending) EN61326 (pending)

Note: Specifications are subject to change without notice

ORDERING INFORMATION

GX6192	GENASYS HF MultiMatrix Switch Card, 192 x 16 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
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