

GX6864



GENASYS 75 OHM RF MULTIPLEXER SWITCH CARD, (4) 2 X 16 MULTIPLEXERS

- (4) 75 Ohm, 16 x 2 RF Multiplexers, compatible with GENASYS switching subsystem (GX7016/GX7017)
- Extended 6U design offers a "cable-less" test system interface
- Supports connections to both an internal bus and external high frequency bus



OVERVIEW

A component of the GENASYS switching subsystem, the GX6864 switch card is one of several different switch cards which can be used with the GENASYS switching subsystem. The GX6864 features (4) 16 x 2, 75 ohm RF multiplexers / matrices with a bandwidth of 450 MHz, making them ideal for video switching applications. Like other GENASYS switch cards, the GX6864 is compatible with the MAC Panel 6U SCOUT receiver and offers "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 GX6864 consists of (4), 2 x 16, 75 RF switch configurations that can be used as multiplexers or matrices. The switch card is an extended 6U PXI module with direct connection to the receiver interface. The inputs to the switch multiplexers are accessed via dedicated external connectors located on the switch module. Additional connections are provided to the GENASYS' internal 16 wire bus for low frequency and self test applications.

SOFTWARE

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

GX6864



SPECIFICATIONS

GX6864 SPECIFICATIONS	
Configuration	(4) 2:16 multiplexer / matrix
Inputs	16 internal analog bus and 8 external connections
Outputs	64
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 RF switch card output)	450 MHz, 75 ohm characteristic impedance
I/O Connections	
Receiver	64, 75 ohm connectors
External I/O	8 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

GX6864	GENASYS 75 Ohm RF Multiplexer Switch Card, (4) 2 x 16 Multiplexers
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