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GX7800 SERIES

8-SLOT, 3U PXI CHASSIS

- Supports a 3U (embedded or remote) PXI controller (up to 3 slots)
- 6 PXI-1 peripheral slots and one system timing slot
- Compact footprint is ideal for bench top or portable applications
- 450 W system power supply
- High capacity cooling system



DESCRIPTION

The GX7800 is a compact, 8-slot PXI chassis that can accommodate up to 7 instruments as well as an embedded 3-slot PXI controller or an external bus controller such as a MXI interface. The GX7800's compact 3U form-factor occupies only 9 x 18 inches of bench space, making it ideal for benchtop or space constrained applications.

FEATURES

System power for the GX7800 Series is provided by a single power supply configuration that provides 450 watts of system power.

Forced-air cooling for the chassis is provided by two 79 CFM fans located under the card cage with a separate fan providing cooling for the system power supply. Two fan speeds provide the user with flexibility to optimize thermal management within the chassis for both low and high power configurations. The chassis' cooling configuration provides airflow for all module slots per the PXI specification and requires no additional rack space for inlet or outlet air.

CONFIGURATION

The eight-slot layout of the GX7800 consists of six PXI-1 slots, one PXI timing slot, and one PXI controller slot which can accept a 3-slot controller. An external 10 MHz PXI clock can be also be supplied to the backplane via a connection on the rear panel of the chassis. Access to the on-board PXI 10 MHz clock is also available on the rear panel of the chassis.

SOFTWARE

The chassis is supplied with the HW software package which provides a PXI Explorer application that is used to view and configure the PXI system configuration files used by resource manager software.

APPLICATIONS

- Automatic Test Equipment (ATE)
- Data Acquisition
- Process Control
- Production Test
- Research and Development
- Scientific Applications
- Industrial Systems

GX7800 SERIES

SPECIFICATIONS

CHASSIS	
Input AC Power	90 - 264 VAC, 10 A (max), 47-63 Hz
Total Available DC System Power	450 W
+5 V +3.3 V +12 V -12 V Note: Total power cannot exceed 450 W	30 A (max) 30 A (max) 10 A (max) 5 A (max)
Weight	13 lbs
Dimensions	4U (7") H x 8.9" W x 18" D
Cooling	Two 79 CFM fans for system cooling. Dedicated 50 CFM fan for power supply cooling.
PXI Triggers	Slots: 2 - 8 Number: 8
PXI Star Trigger	Slots: 2 - 8 Dedicated, low skew Star trigger connecting slots 3 - 8 to slot 2, the PXI system timing slot
PXI Clock and Synchronization Resources	Integrated 10 MHz clock with an autodetect function. Presence of an external 10 MHz PXI clock will overide the internal 10 MHz clock 10 MHz clock accuracy: ±100 ppm
External 10 MHz Clock Input	An external 10 MHz clock source (TTL level) can be provided via a rear panel BNC or via a PXI System Timing Controller
10 MHz Clock Output	10 MHz output is available via a rear panel BNC connector, TTL compatible level.
Slots	8 Slots (7 instruments max) 1 PXI controller slot 6 PXI slots 1 PXI System Timing slot

ENVIRONMENTAL	
Acoustic Noise (at operator level, 12 inches from front of unit)	Low fan setting (@ 23°C ambient): <40 dBA High fan setting: 64.6 dBA
Operating Temperature	0 °C to +50 °C
Storage Temperature	-20 °C to +60 °C
Emissions Compliance	EN55011:1991 Group 1
CE Compliance	EN 61010-1 EN61326

Note: Specifications are subject to change without notice

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GX7800 SERIES

ORDERING INFORMATION

GX7800	8-Slot, 3U PXI Chassis
GX7800R	8 Slot, 3U PXI Chassis with Rackmount Kit (GX97600)
BUS EXPANDER	
MXI-4E-C	MXI-Express Kit, Copper, PXI to PCI, with 3m Cable ECCN EAR99
MXIe1-PXI-L	Laptop (ExpressCard) to PXI Interface Card Kit, Includes a 3 Meter Cable
MXI-EXPRESS	MXI-Express Interface Kit Including PCIe Interface Card, PXI Interface Card, and a 3 Meter Cable, includes 2-port PCIe card
MXI-EXPRESS-2	Dual MXI-Express I/F Kit Including Dual-Port PCIe I/F Card, 2 PXI I/F Cards, and 2 3 Meter Cables
MXI-4E-PCI-C	MXI-Express Interface Card, PCI, Copper, (Requires One MXI-E-PXI-C & Cable)
MXI-4E-PXI-C	MXI-Express Interface Card, PXI, Copper, (Requires One MXI-E-PCI-C & Cable)
MXI-4E-PXI-C-P	MXI-Express Interface Card, PXI, Copper, for Daisy Chain Configurations (Requires One MXI-E-PXI-C & Cable)
MXI-EXPRESS-1	MXI-EXPRESS interface kit, includes single port PCIe interface card, PXI interface card, 3M cable
ACCESSORY	
GX97111	3U Blank Panel, 1-Slot wide
GX97112	3U Blank Panel, 2-Slots wide
GX97114	3U Blank Panel, 4-Slots wide
GX97115	3U Blank Panel with multiple size panels
GX97117	3U Blank Panel with Air Baffle
GX7909-250	3U cCPI Card with 250 GB Hard Drive
GX7909-80	3U CPCI Card with 80 GB Hard Drive
GX7909-SSD	3U cPCI with Solid State Drive, 1TB
GX7909-500	3U cCPI Card with 500 GB Hard Drive
GX97909	8 & 9-Slot PXI Chassis Installation/Integration Service & 2nd Year Warranty
GX97028	Replacement PXI Chassis Power Supply
OPTION	
GX7xxx-400Hz	115VAC/400Hz Input Power Option for any Marvin Test Solutions PXI Chassis

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