

14-slot combination chassis that accommodates 3U and 6U PXI controllers and instruments in 4U of rack space. The CP199's unique format includes seven 3U-only slots and seven 3U/6U slots arranged horizontally to reduce the overall size of the chassis, providing the versatility and high-density necessary to address many PXI applications and requirements.

APPLICATIONS

Data acquisition
Control systems
Automatic test equipment (ATE)
Product development and test
Industrial Systems
Portable Systems
and many more

CP199

14-slot Rugged 3U/6U PXI Combination Chassis



KineticSystems' CP199 Series are 14-slot combination chassis that accommodate 3U and 6U PXI controllers and instruments in 4U of rack space.

FEATURES

- Slots for one 6U (embedded) or 3U (remote) PXI controller, six 6U or 3U instruments, and seven 3U instruments
- Built-in peripherals (hard disk drive, floppy disk drive, and a CD-ROM or CD-RW drive) for embedded controller configurations
- Internal temperature monitoring, power supply monitoring, and PXI trigger mapping
- Innovative forced-air cooling controlled by embedded chassis temperature monitor
- Optional cable tray, recessed card cage, and hinged front panel configurations for mass interconnect devices



GENERAL DESCRIPTION

The CP199 Series are 14-slot combination chassis that accommodate 3U and 6U PXI controllers and instruments in 4U of rack space. The CP199's unique format includes seven 3U-only slots and seven 3U/6U slots arranged horizontally to reduce the overall size of the chassis, providing the versatility and high-density necessary to address many PXI applications and requirements.

FEATURES

The CP199 Series offers a full range of features and options including an innovative forced-air cooling system comprised of eight (8) 20 CFM fans controlled by built-in temperature sensors. The fans provide airflow according to PXI revision 2.1 specifications. This cooling configuration provides optimum cooling for the chassis regardless of the type or number of instruments used. Additional cooling is provided for the system power supply.

The CP199 supports the monitoring of internal chassis temperatures and system power supply voltages as well providing the ability to program or map each PXI trigger line from one PCI segment to another. In addition, the user can program the temperature monitoring function for specific warning and shutdown limits. All user specific setups can be stored in non-volatile memory as a user configuration and can be used as the default setup for normal chassis operation.

For applications requiring mass interconnect and cable routing to/from the rear of the chassis, the CP199 Series offers the ideal system solution. These chassis include an integrated 2U cable tray, a hinged front-panel that accommodates all popular mass interconnect devices, optional openings at the top and bottom of chassis for cable routing, and recessed PXI instruments (recessed by 2.5" or 5"). The combination of front panel and the recessed instruments provides up to 8" of space for interface wiring.

The CP199 Series provides 560W of system power and complies with the PXI Hardware Specification 2.1.

CONFIGURATION

Slot 1 (6U) is dedicated to the system controller (embedded or remote, using a PXI bus expander). Slot 2 can be used by a PXI Star Trigger Controller or by any PXI or cPCI instrument. Slots 3-14 support the PXI Star Trigger. The PXI local bus interconnects cards within PXI segment A or segment B. The PXI trigger lines are buffered / enabled at the PXI segment A / segment B boundary.

SPECIFICATIONS

CHASSIS (ALL MODELS)	
INPUT AC POWER	100-250 VAC, 47-63 Hz, 10 A Max with PFC
TOTAL AVAILABLE DC POWER	560W
+5V +3.3V +12V -12V	60 A (Max) 40 A (Max) 32 A (Max) 3 A (Max) (Note: 5V & 3.3V power cannot exceed 300W).
WEIGHT CP199-GA11 CP199-GB11	26 lbs 23 lbs
DIMENSIONS	4U (7") H x 17.6" W x 16" D
COOLING	Eight 20CFM fans for instruments. Additional fan for power supplies
PXI CLOCK	Integrated 10 MHz PXI clock with auto-detect function. Presence of an external 10 MHz PXI clock will disable the internal clock. PXI clock is distributed to all peripheral slots. Optional external clock via slot 2
TEMPERATURE MONITORING	<ul style="list-style-type: none"> •7 temperature sensors, centrally located across segment A, 1 reading /sec/ sensor •4 second moving average value •User selectable alarm criteria: <ul style="list-style-type: none"> -Maximum slot temperature -Average slot temperature

CHASSIS (ALL MODELS)	
	<ul style="list-style-type: none"> •Accuracy: +/- 1 ° C •Default warning and shutdown limits: +50 ° C & +70° C •Warning and shutdown limits programmable via software driver •Status: Query via software driver and audible alarm for a warning limit condition.
POWER SUPPLY MONITORING	Monitored voltages: 3.3, 5, +12, -12, VIO value Accuracy: +/- 1% of reading
PXI TRIGGERS	Slots: 2- 14 Number: 8 per segment Software controlled segment mapping supports: <ul style="list-style-type: none"> •Isolate a trigger line within a segment •Map a trigger line from segment A to B •Map a trigger line from segment B to A
SLOTS	14 PXI or cPCI Slots: Seven dedicated 3U instrument slots Seven 3U/6U instrument slots
ENVIRONMENTAL TEMPERATURE RANGE	
OPERATING	0° C to 50° C
STORAGE	-20° C to 60° C

Note: Specifications are subject to change without notification.



Warranty

1 year limited warranty

Safety/Emissions:

Consult factory for more details

ORDERING INFORMATION

KineticSystems' CP199 for PXI is available in the following standard configuration(s):

Description	Part Number
14-slot (7x3U/7x6U) cPCI/PXI Chassis, HD/Floppy/CD-ROM Drives	CP199-GA11
14-slot (7x3U/7x6U) cPCI/PXI Chassis	CP199-GB11

Accessories

Remote/External Controllers:

CP120-AA11	Star Fabric PXI Controller Card
CP121-AA11	Star Fabric Laptop Adapter (PCMCIA) w/3 meter cable
CP122-AA11	Star Fabric PCI Adapter w/3 meter cable
CP124-AA11	MXI-4 Kit for PCIbus, 3U, Fiber Optic w/10 meter cable
CP124-AB11	MXI-4 Kit for PCIbus, 3U, Copper w/3 meter cable

Embedded Controllers (6U):

CP153-AA11	600MHz Celeron M Embedded Controller, 512MB RAM
CP154-AA11	2.4GHz Pentium 4 Embedded Controller, 1MB RAM
CP155-AA11	1.4GHz Pentium M Embedded Controller, 1GB RAM
CP155-AB11	1.8GHz Pentium M Embedded Controller, 1GB RAM
CP156-AA11	2.0GHz Core 2 Duo Embedded Controller, 1GB RAM
CP156-AA21	2.0GHz Core 2 Duo Embedded Controller, 2GB RAM
CP156-AB11	2.16GHz Core 2 Duo Embedded Controller, 1GB RAM
CP156-AB21	2.16GHz Core 2 Duo Embedded Controller, 2GB RAM

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To find your local sales representative or distributor or to learn more about KineticSystems' products visit:

www.kscorp.com

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