

20-slot PXI chassis that can accommodate up to 19 instruments as well as a PXI controller. The 6U form-factor provides the necessary real estate to accommodate high performance and high-density test instrumentation, while offering the flexibility of being able to use 3U PXI and cPCI instruments as well.

## APPLICATIONS

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

# CP195

## 20-slot Rugged 6U PXI Chassis



KineticSystems' CP195 Series are 20-slot 6U chassis that accommodate up to 19 instruments as well as a PXI controller.

## FEATURES

- 20 slots supporting one 6U or 3U (embedded or remote) PXI controller and 19 PXI or cPCI instruments (3U or 6U)
- Built-in peripherals (hard disk drive, floppy disk drive, and a CD-RW drive) for embedded controller configurations
- Integral Smart functions provide per slot temperature monitoring, system power supply monitoring, and PXI trigger mapping
- 800 W system power supply (1100 W optional)
- Optional cable tray, recessed instrumentation, cable routing openings on top & bottom, and hinged front panel for mass interconnect devices
- UUT interfacing options



## GENERAL DESCRIPTION

The CP195 Series are high-performance 20-slot PXI chassis that can accommodate up to 19 instruments as well as a PXI controller. The 6U form-factor provides the necessary real estate to accommodate high performance and high-density test instrumentation, while offering the flexibility of being able to use 3U PXI and cPCI instruments as well.

## FEATURES

The CP195 Series offers a full range of features and options including 800W or 1100W system power supply configurations, as well as configurations that support embedded or external system controllers.

The CP195 provides forced-air cooling which is generated by four (4) 52 CFM fans mounted under the card cage—providing positive airflow per the PXI specifications. This configuration provides the optimum cooling for the chassis regardless of the type or number of instruments used. Additional cooling is provided for the power supplies.

The CP195 Smart Chassis supports the monitoring of slot 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 shut-down 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.

The CP195 supports mass interconnect interfaces from several manufacturers including Virginia Panel, MacPanel, ITT Cannon, and others via the CP195 Universal Receiver Interface.

## CONFIGURATION

Slot 1 is dedicated to the system controller (embedded or remote, using a PXI bus expander). A PXI Star Trigger Controller or any PXI or cPCI instrument can be used in slot 2. Slots 3-15 support the PXI Star Trigger and any PXI or cPCI instrument. Slots 16-20 accommodate PXI or cPCI instruments without the Star Trigger.

## SPECIFICATIONS

<b>INPUT AC POWER</b>	115 V <sub>AC</sub> @ 18 A, 47/60 Hz 230 V <sub>AC</sub> @ 12 A, 47/60 Hz
<b>TOTAL AVAILABLE DC POWER</b>	1120 W
<b>AVAILABLE DC CURRENT</b>	
+5V	120 A (Max)
+3.3V	80 A (Max)
+12V	64 A (Max)
-12V	6 A (Max)
<b>WEIGHT</b>	
CP195-GA11	39 lbs
CP195-GB11	36 lbs
<b>DIMENSIONS</b>	8U (14")H x 17.6"W x 14"D
<b>COOLING</b>	Four 52CFM fans for instruments. Two 50CFM fans for power supplies
<b>SLOTS</b>	20 PXI or cPCI Slots (19 instruments max)

<b>TEMPERATURE MONITORING</b>	Per slot monitoring, 1 reading/sec/slot 4 second moving average value User selectable alarm criteria: <ul style="list-style-type: none"> <li>Maximum slot temperature</li> <li>Average slot temperature</li> </ul> Accuracy: +/- 2 ° 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.
<b>POWER SUPPLY MONITORING</b>	Monitored voltages: 3.3, 5, +12, -12, VIO value Accuracy: +/- 2% of reading
<b>PXI Triggers</b>	Slots: 2- 20 Number: 8 per segment Software controlled segment mapping supports: <ul style="list-style-type: none"> <li>Isolate a trigger line within a segment</li> <li>Map a trigger line left to right</li> <li>Map a trigger line right to left</li> </ul>
<b>CLOCK</b>	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. 10MHz PXI clock accuracy: ±100ppm.



ENVIRONMENTAL TEMPERATURE RANGE	
<b>OPERATING:</b>	0° C to 50° C
<b>STORAGE:</b>	-20° C to 60° C
<b>CE COMPLIANCE</b>	EN61010-1 (pending) EN61326

Note: Specifications are subject to change without notice.

### Warranty

1 year limited warranty

### Safety/Emissions:

Consult factory for more details

### ORDERING INFORMATION

KineticSystems' CP195 for PXI is available in the following standard configuration(s):

Description	Part Number
20-slot, 6U Chassis for Embedded Controllers, 1100W, Rack-mount	CP195-GA11
20-slot 6U Smart Chassis for Remote Controllers, 1100W, Rack-mount (as above minus disk drives)	CP195-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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