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**PXI-8170**



**Board Assembly Part Number(s)**

Part Number	Description
186595X-020	MODULE ASSY, PXIPC-8170, 700 MHZ, 64 MB MEMORY, NO OS
186595X-030	MODULE ASSY, PXIPC-8170, 850 MHZ, 64 MB MEMORY, NO OS
186595X-220	MODULE ASSY, PXIPC-8170, 700 MHZ, 64 MB MEMORY, WINDOWS NT
186595X-230	MODULE ASSY, PXIPC-8170, 850 MHZ, 64 MB MEMORY, WINDOWS NT
186595X-320	MODULE ASSY, PXIPC-8170, 700 MHZ, 64 MB MEMORY, WINDOWS 98
186595X-330	MODULE ASSY, PXIPC-8170, 850 MHZ, 64 MB MEMORY, WINDOWS 98
186595X-420	MODULE ASSY, PXIPC-8170, 700 MHZ, 64 MB MEMORY, WINDOWS 98, JAPANESE
186595X-430	MODULE ASSY, PXIPC-8170, 850 MHZ, 64 MB MEMORY, WINDOWS 98, JAPANESE
186595X-520	MODULE ASSY, PXIPC-8170, 700 MHZ, 64 MB MEMORY, WINDOWS NT, JAPANESE
186595X-530	MODULE ASSY, PXIPC-8170, 850 MHZ, 64 MB MEMORY, WINDOWS NT, JAPANESE
186595X-620	MODULE ASSY, PXIPC-8170, 700 MHZ, 64 MB MEMORY, WINDOWS 2K
186595X-630	MODULE ASSY, PXIPC-8170, 850 MHZ, 64 MB MEMORY, WINDOWS 2K
186595X-930	MODULE ASSY, PXIPC-8170, 850 MHZ, 64 MB MEMORY, LV RT

**Manufacturer:** National Instruments

**Volatile Memory**

Type <sup>1</sup>	Size	User Accessible/ System Accessible <sup>2</sup>	Battery Backup?	Purpose	Method of Clearing <sup>3</sup>
SDRAM	64 MB	Yes/Yes	No	Controller RAM	Cycle Power
CMOS RAM	256 B	Yes/Yes	Yes	CMOS	Remove CMOS battery
HiQVideo	4 MB	No/Yes	No	Video RAM	Cycle Power
uProcessor	528 KB	No/Yes	No	L1/L2 Cache	Cycle Power

**Non-Volatile Memory**

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
CPLD	36 MacroCells	No/No	No	PCI Arbiter/Watchdog	None Available to User
CMOS RAM	114 B	Yes/Yes	Yes	CMOS	Remove CMOS battery
Boot Flash	2 Mbits	No/Yes	No	BIOS configuration	None Available to User
EPLD	256 MacroCells	No/No	No	Misc. Control	None Available to User

**Media Storage**

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
Hard Drive	40 GB	Yes/Yes	No	Primary Disk Drive	Remove from controller <sup>4</sup>

<sup>1</sup> Calibration constants that are stored in device EEPROMs include information for the device's full operating range and do not maintain any unique data for specific frequencies at which the device is used.

<sup>2</sup> Items above that are noted as **No** for User Accessible/System Accessible are for the following reason(s): Hardware changes or a unique software tool from National Instruments are required to modify contents of the memory listed. This software tool is not distributed to public users for any personal access or customization; also known as non-normal use.

<sup>3</sup> The designation *None Available to User* indicates that the ability to clear this memory is not available to the user under normal operation. The utilities required to perform this action are not distributed by National Instruments to customers for normal use.

<sup>4</sup> Since a hard drive cannot be cleared, to declassify a system containing a PXI embedded controller, the controller's hard drive must be removed as part of the declassification procedure. This can be done by removing the controller from the system or removing the hard drive from the controller during declassification. Alternatively, the hard drive can be permanently removed from the controller and a CompactPCI (cPCI) hard drive carrier/interface can be used to provide an easily-removable, bootable hard drive.

**Terms and Definitions**

**User Accessible** - The user can directly write or modify the contents of the memory during normal instrument operation.

**System Accessible** - Any data that can access, change, or modify the memory. This could be something that is not deliberate by the user and could be a background driver implementation, such as storing application information in RAM to increase speed of use.

**Cycle Power** - This defined the process of completely removing power from the device and its components. This includes a complete shutdown of the PC or Chassis containing the device; a reboot is not sufficient for the completion of this process.

**Volatile Memory** - Memory that requires power to maintain the stored information. When power is removed from this memory its contents are lost.

**Non-Volatile Memory**- Memory that will retain its contents when power is removed. This type of memory typically contains calibration or chip configuration information, such as power up states.