

RAM Upgrades for NI PXI Embedded Controllers

Updated Oct 8, 2020

Overview

You can increase the amount of installed RAM on NI PXI controllers by upgrading the SO-DIMMS. This document lists the RAM options that are available for your PXI controller.

NI has tested and verified that the SO-DIMMs we sell work with the controllers listed below. We recommend you purchase your SO-DIMM modules from NI. Other off-the-shelf SO-DIMM modules are not guaranteed to work properly.

Contents

- [How to Use](#)
- [RAM Module Specifications](#)
- [Purchase RAM Modules](#)
- [Install RAM Modules](#)
- [RAM Modules for EOL Controllers](#)
- [Additional Resources](#)

How to Use

Use the table below to identify what RAM options are available for your controller. Each PXI controller comes with existing standard RAM. The SO-DIMM modules can provide additional RAM or replace the existing amount. The total amount must not exceed the maximum supported RAM of the PXI controller.

For PXI controllers that have multiple available SO-DIMM sockets, select the same size and speed SO-DIMM module in each of the sockets. The use of different size modules in each socket is supported, but system performance will be slower than using two matched modules. However, two mismatched modules will result in better performance than using a single module.

Was this information helpful?

RAM Module Specifications

Was this information helpful?



Controller Model	Standard RAM	Maximum RAM	Available SO-DIMM Sockets	SO-DIMM Module Specifications	SO-DIMM Module Part Number
PXle-8135	4 GB	16 GB	2	4 GB, DDR3L SDRAM, PC3-12800, SODIMM 8 GB, DDR3L SDRAM, PC3-12800, SODIMM	782344096 782348192
PXI-8820 PXle-8820	2 GB	8 GB	1	2 GB, DDR3L SDRAM, PC3-12800, SODIMM 4 GB, DDR3L SDRAM, PC3-12800, SODIMM 8 GB, DDR3 SDRAM, PC3-10600, SODIMM	782912048 782914096 781738192
PXle-8821	2 GB	8 GB	1	2 GB, DDR3L SDRAM, PC3-12800, SODIMM 4 GB, DDR3L SDRAM, PC3-14900, SODIMM 8 GB, DDR3L SDRAM, PC3-14900, SODIMM	785340101 785340101 783008192

Was this information helpful?

Yes

No

PXI-8840				4 GB, DDR3L	
PXI-8840				DSRAM, PC3-	
QC				12800,	78234
PXIe-8840	4 GB	8 GB	1	SODIMM	4096
PXIe-8840				8 GB, DDR3L	78300
QC				DSRAM, PC3-	8192
				12800,	
				SODIMM	
PXIe-8861	8 GB	32 GB	2	8 GB, DDR4-	78677
				2133 SDRAM,	01
				SODIMM	78677
				16 GB, DDR4-	01
				2133 SDRAM,	
				SODIMM	
PXIe-8880	8 GB	24 GB	2*	8 GB, DDR4-	78381
				2133 SDRAM,	01
				PC4-1866,	
				SODIMM	
PXIe-8881	32 GB	64 GB	4	16 GB, DDR4-	78765
				2666 SDRAM,	01
				PC4-21300,	
				SODIMM	

*The PXIe-8880 has 3 sockets, but only 2 are user-accessible.

Purchase RAM Modules

To purchase, [order by part number](#) or contact [NI Sales](#).

Install RAM Modules

Refer to the *Upgrade RAM* or *Upgrade Information* section of your PXI controller's user manual. The manuals provide a diagram of where the SODIMM sockets are located on the controller.

Was this information helpful?

Yes No

When installing SO-DIMM modules on controllers with multiple sockets, the sockets must be populated from lowest to highest socket. If a single SO-DIMM module is used, it must be installed in the lowest socket.

RAM Modules for EOL Controllers

Refer to the PXI controller's user manual for RAM specifications. RAM upgrades may be unavailable for controllers that have been given end of life status. [Contact NI](#) for more information.

Additional Resources

- [PXI Controllers product page](#)
- [PXI Controller User Manuals](#)
- [PXI Controller Specifications](#)

Was this information helpful?



Yes

No