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CompactRIO Power Supply Accessories

Updated Oct 10, 2023

Overview

Use this guide to select the correct power supply for your CompactRIO Controller. Whether you are creating a new configuration, replacing or expanding your current CompactRIO System, or verifying that existing parts can be used in a different configuration.

This page is part of the [CompactRIO System Accessory Compatibility Guide](#).

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Using this CompactRIO System Accessory Guide

This guide is intended to cover mounting, connectors, power supply and cables for use with your CompactRIO Controller and CompactRIO Chassis. It does not explicitly cover other NI product families such as [DAQ Multifunction I/O](#), [Digital Waveform Instruments \(formerly HSDIQ\)](#), or R Series. It also does not cover legacy or End of Life (EOL) parts or products.

Note: Using the page search functionality in your browser to locate your model may speed up this process. This is typically CTRL+F on Windows or ⌘+F on MacOS.

Power Supply Accessory Compatibility Tables

Note: N/A = Not Applicable

Note: P/N = Part Number

Cable & Accessories for C Series Module with D-Sub connection

Controller	Desktop DC Power Supply ¹	Power Supply 3.3A, 24VDC	Power Supply 5A, 24VDC	Power Supply 10A, 24VDC	Power Supply 20A, 24VDC	Panel Mounting Kit	Side Mounting Kit
cRIO-9012							
cRIO-9014							
cRIO-9022							
cRIO-9023							
cRIO-9024							
cRIO-9025							
cRIO-9030							
cRIO-9031							
cRIO-9032							NI PS-14/15
cRIO-9033							
cRIO-9034							
cRIO-9035							
cRIO-9036							P/N: 199429-01
cRIO-9037							
cRIO-9038							
cRIO-9039							
cRIO-9040				NI PS-16	NI PS-17	NI PS-14/15/16/17	NI PS-16
cRIO-9041	NI PS-10	NI PS-14	NI PS-15				
cRIO-9042							
cRIO-9043				P/N: 781094-01	P/N: 781095-01	P/N: 199432-01	P/N: 199430-01
cRIO-9045	P/N: 782698-01	P/N: 783167-01	P/N: 781093-01				
cRIO-9046							
cRIO-9047							NI PS-17
cRIO-9048							
cRIO-9049							
cRIO-9053							P/N: 199431-01
cRIO-9054							
cRIO-9056							
cRIO-9057							
cRIO-9063							
cRIO-9064							
cRIO-9065							
cRIO-9066							
cRIO-9067							
cRIO-9068							
cRIO-9072							
cRIO-9073							
cRIO-9074							
cRIO-9075							
cRIO-9076							

							NI PS-14/15
							P/N: 199429-01
	NI PS-10		NI PS-15	NI PS-16	NI PS-17	NI PS-14/15/16/17	NI PS-16
cRIO-9081 cRIO-9082	P/N: 782698-01	N/A	P/N: 781093-01	P/N: 781094-01	P/N: 781095-01	P/N: 199432-01	P/N: 199430-01
							NI PS-17
							P/N: 199431-01

¹Region-specific power cable not included

Cable & Accessories for C Series Module with D-Sub connection

Chassis	Desktop DC Power Supply ¹	Power Supply 3.3A, 24VDC	Power Supply 5A, 24VDC	Power Supply 10A, 24VDC	Power Supply 20A, 24VDC	Panel Mounting Kit	Side Mounting Kit
NI 9154 NI 9155 NI 9157 NI 9159 NI 9144 NI 9145 NI 9146 NI 9147 NI 9148 NI 9149	NI PS-10 P/N: 782698-01	NI PS-14 P/N: 783167-01	NI PS-15 P/N: 781093-01	NI PS-16 P/N: 781094-01	NI PS-17 P/N: 781095-01	NI PS-14/15/16/17 P/N: 199432-01	NI PS-14/15 P/N: 199429-01 NI PS-16 P/N: 199430-01 NI PS-17 P/N: 199431-01

¹Region-specific power cable not included

Ordering Information

For more information on any of the listed NI orderable parts, please visit <http://www.ni.com/contact-us/> to contact an NI representative. Most NI orderable parts listed in this guide without a product page can still be purchased by contacting NI.

Glossary of Terms Used

- **Desktop Power Supply** - Recommended for use while prototyping on a desktop. Most industrial power supplies are not intended for desktop use and can be dangerous in this setting. [Click here for an example.](#)
- **Power Supply** - Power supply allows DIN-rail mounting. [Click here for an example.](#)
- **Panel Mounting Kit** - Panel/wall mount kit for mounting power supplies onto a flat surface without DIN rail. [Click here for an example.](#)
- **Side Mounting Kit** - Side mounting kits for mounting power supplies sideways to reduce installation depth. Side mounting kits are capable of panel/wall mount and DIN-rail mount. [Click here for an example.](#)

Additional Resources

- [Dimensional Drawing for PS-15](#)
- [NI PS-14/15/16/17 Letter of Volatility](#)
- [NI-PS-14/15/16/17 Panel Mount Brackets Installation Guide](#)
- [NI-PS-14/15/16/17 Side Mount Bracket Installation Guide](#)
- [NI PS-15 Power Supply User Manual](#)
- [C Series I/O Cable & Accessory Compatibility Guide](#)