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C Series with RJ 45/RJ 50 Front Connection: I/O Cable & Accessory Guide

Updated Dec 29, 2022

Overview

Use this guide to match your C Series Modules with RJ 45/RJ 50 front connection with a compatible cable and accessory to meet the needs of your application, whether you are creating a new configuration, replacing or expanding your current configuration, or verifying that existing parts can be used in a different configuration.

This page is part of the C Series I/O Cable and Accessory Compatibility Guide.

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Using this C Series I/O Cable and Accessory Guide

This guide is intended to cover connectors and cables for use with C Series Modules. It does not explicitly cover other NI product families such as DAQ Multifunction I/O, Digital Waveform Instruments (formerly HSDIO), or R Series. It also does not cover legacy or End of Life (EOL) parts or products. Additionally, these products are supported in cRIO and/or cDAQ chassis, but this guide does not cover chassis accessories.

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.

Finding Your C Series Module

This page is arranged by first having you identify the connector type on your C Series Module, locating the information for your specific model, and then choosing the accessory or cable combination that best fits your needs.

How to identify the model number of your C Series Module:

The model number of the C Series Module is printed on the faceplate of the module and also in the Getting Started that ships with the module.

Cable and Accessory Compatibility Tables

Figure 1: C Series with **RJ 45/RJ 50** Front Connection

Note: N/A= Not Applicable

Cable & Accessories for C Series Module with RJ 45/RJ 50 connection

Modules	Number of RJ 45/RJ 50	Terminal Block	DIN Rail Mount Terminal Block	Cables
NI-9469	3 (RJ 45)	N/A	N/A	CAT5-5E Ethernet cable, thin profile 2m P/N: 151733-02 CAT5-5E Ethernet cable, thin profile 5m P/N: 151733-05 CAT5-5E Ethernet cable, thin profile 10m P/N: 151733-10 E1 Ethernet cable, twisted pair 1m P/N: 182219-01 E1 Ethernet cable, twisted pair 5m P/N: 182219-05 E1 Ethernet cable, twisted pair 10m P/N: 182219-10
NI-9237	4 (RJ 50)	NI 9949 RJ-50 to Screw Terminal Adaptor P/N: 196809-01 NI 9944 Quarter Bridge Completion Accessory (120 Ohm) P/N: 194738-01 NI 9945 Quarter Bridge Completion Accessory (350 Ohm) P/N: 194739-01 NI 9942 4-Pos Connector Kit P/N: 194611-01	N/A	RJ50 Cable, 2m P/N: 194612-02 RJ50 Cable, 10m P/N: 194612-10 RJ50 Cable to Pigtail, 2m P/N: 195950-02 RJ50 Cable to Pigtail, 10m PN: 195950-10

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

- **EMI Suppression Ferrite -** Passive electrical component clamped around a cable to reduce Electromagnetic Interference (EMI) on the line. Click here for an example.
- **DIN Rail Mount Terminal Block -** A type of connector block that allows you to mount the block to a DIN rail. Click here for an example.
- **Front Mount Terminal Block –** A type of connector block that connects to the front of the module. Click here for an example.

Additional Resources

- C Series I/O Cable & Accessory Compatibility Guide
- C Series Module Compatibility Chart
- Shop for Terminal Blocks