

140CRP93100

Modicon Quantum RIO Head-End Adapter Module

Schneider Electric 140CRP93100 is a Modicon Quantum remote-I/O head-end adapter with one channel and a single-cable connector. It links the controller to the documented coaxial RIO network.

PRODUCT SNAPSHOT

BRAND
Schneider Electric

FAMILY
Modicon Quantum

PART
140CRP93100

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

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WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Schneider Electric 140CRP93100 provides head-end communication between a Quantum controller and one documented remote-I/O coaxial channel in a documented Modicon Quantum installation.



Single-channel RIO head-end adapter



One connector for a single cable



600 mA bus-current requirement



3 W power dissipation

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9

Schneider Electric 140AMM09000

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
Proximity probe	Matched extension cable
Proximator Sensor	AISI 4140 target

ENGINEERING CONTEXT

The component remains matched to its documented cabinet position, power source, interfaces and approved engineering configuration. Commissioning restores that architecture and verifies the affected control or communication function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product designation	RIO head-end adapter module
Automation platform	Modicon Quantum
Remote-I/O channels	1
External connection	1 connector with single cable

PARAMETER	VALUE
Bus current required	600 mA
Power dissipation	3 W
Comparison reference	140CRP93200 provides two channels
System role	Quantum remote-I/O head-end communication

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TECHNICAL NOTE

Install 140CRP93100 only in the documented Modicon Quantum position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and head-end communication between a Quantum controller and one documented remote-I/O coaxial channel before service release.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Quantum remote-I/O head end

Connects the controller rack to the documented coaxial RIO network.

Single-cable RIO architecture

Maintains the one-channel topology assigned to the 140CRP93100.

Legacy RIO replacement

Restores the exact drop map, addressing and cable termination.

RIO commissioning

Verifies communication to every configured remote drop before release.

PRODUCT PRECAUTIONS

- 1 Confirm the complete 140CRP93100 marking and the documented Modicon Quantum RIO Head-End Adapter
- 2 Place the machine, controller and affected process in the approved maintenance state.
- 3 Isolate all hazardous energy and prove the safe state before disconnecting hardware.
- 4 Record the installed position, every terminal or port, and the active engineering configuration.
- 5 Verify the exact electrical, interface and environmental limits in the manufacturer evidence.
- 6 Restore protective earth, shielding, wiring, communications and the approved project or
- 7 Energize under control and review all device, rack, network and process diagnostics.
- 8 Complete a controlled functional test of head-end communication between a Quantum controller and one

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ENGINEER FAQ

Q1 **How many remote-I/O channels does Schneider Electric 140CRP93100 provide?**

140CRP93100 provides one remote-I/O channel with one connector for a single cable.

Q2 **What distinguishes 140CRP93100 from the 140CRP93200 RIO head-end module?**

The official Schneider Electric comparison identifies 140CRP93100 as the one-channel unit, while 140CRP93200 provides two channels.

Q3 **What Quantum bus current must be reserved for 140CRP93100?**

Reserve 600 mA of Quantum backplane bus current for 140CRP93100.

Q4 **How much power does 140CRP93100 dissipate in the rack?**

The official Schneider Electric FAQ specifies 3 W power dissipation for 140CRP93100.

Q5 **Which cable architecture must be preserved when replacing 140CRP93100?**

Preserve the documented single-channel coaxial remote-I/O architecture, including the drop map and termination arrangement.

Q6 **What should be recorded before removing 140CRP93100 from a Quantum rack?**

Record the slot, coaxial route, connector condition, remote-drop addresses and controller configuration before removal.

Q7 **Which checks are required after energizing replacement 140CRP93100?**

Review module and network diagnostics, then verify communication with every configured remote-I/O drop.

Q8 **When can a 140CRP93100 replacement be returned to service?**

Release it only after the exact model, one-channel topology, terminations, addressing and controlled remote-I/O response have been verified.

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