Schneider Electric 140CRP93200

01 Dual-Channel Remote I/O Head Module

Schneider Electric 140CRP93200 provides separate A and B communication paths so technicians can distinguish a failed coaxial branch from a complete loss of remote-I/O exchange.

1 Quantum CPU — 2 Dual RIO head — 3 Coaxial paths — 4 Remote drops

CPU-side head and drop roles

The head belongs in the same backplane as the controlling CPU and communicates with remote-drop adapters over the coaxial network. It is not a Modbus Plus DIO adapter or an Ethernet head. Preserve the CPU's remote-drop map and actual network layout when replacing the head.

Dual coaxial paths

The two coaxial connectors support the dual-cable arrangement. Each path requires the correct cable-system design and termination; one healthy path should not conceal an unresolved error on the other. The coaxial shield is tied to chassis ground, so grounding and cable routing are part of network acceptance.

Diagnostics and application data

Ready indicates successful power-up diagnostics, while Com Act indicates remote-network communication. Error A and Error B identify losses associated with the respective channel. Record the diagnostic state and drop behavior during an approved single-path test, then restore both paths before normal service.

Values select the dual-channel 140CRP93200 execution from the CRP93X00 table.

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02 Ratings, interfaces and applicable limits

Coaxial channels	2
Maximum remote drops	31
I/O capacity per drop	64 input words / 64 output words
Data transfer rate	1.544 Mbit/s
Coaxial termination	Internal 75 Ω
Dynamic range	35 dB
Typical bus current	750 mA
Typical dissipation	3.8 W

Configuration-specific engineering data

Head location	Controlling CPU backplane
Channel connectors	Two F-type female connectors with right-angle adapters
Coaxial shield	Connected to chassis ground
Heads per controller	1 maximum
Ready indication	Power-up diagnostics passed

Applying these values to the complete installation

Values select the dual-channel 140CRP93200 execution from the CRP93X00 table. Keep the head in the controlling CPU backplane and preserve the approved drop map. Do not mix this role with DIO or Ethernet adapters.

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03 Application decisions and system boundaries

01 Dual-cable remote I/O

Exchange CPU data with correctly configured coaxial RIO drops through two network paths.

02 Mixed legacy drops

Maintain supported drop families within the approved network and word allocations.

03 Cable-path diagnostics

Separate A and B route failures through channel-specific indications and controlled testing.

04 Remote rack refurbishment

Preserve the CPU-side head role and remote-adapter identities during maintenance.

RIO topology

Keep the head in the controlling CPU backplane and preserve the approved drop map. Do not mix this role with DIO or Ethernet adapters.

Cable-system integrity

Retain the correct coaxial impedance, shield arrangement and connector installation. Verify both paths after a network intervention.

Data acceptance

Confirm representative remote input and output words as well as diagnostics. Record path-specific results before returning the network to service.

Replacement boundary: Replacement requires agreement of the installed interfaces, operating limits and configuration; a similar catalog number does not establish interchangeability.

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04 Eight questions beyond the specification table

1 Can a Ready indication on 140CRP93200 prove all remote drops are communicating?

Ready confirms power-up diagnostics. Check Com Act, channel error indications and actual drop data to establish network operation.

2 How should an Error A indication on 140CRP93200 be isolated?

Examine the A-channel cable route, connectors and affected drop communication while preserving the other path under an approved test plan. Do not assume the entire head has failed.

3 Why must both paths of 140CRP93200 be tested after a cable repair?

A working path can sustain communication while the other remains defective. Validate each path separately, then restore and confirm the complete dual-cable arrangement.

4 Can 140CRP93200 be placed in a remote rack as though it were a drop adapter?

It is the CPU-side RIO head. Remote racks require the appropriate drop adapter; their similar appearance does not establish an interchangeable role.

5 What must be retained before replacing 140CRP93200 in a mixed-drop network?

Keep the drop identities, addresses, word allocations and cable topology. Mixed supported drop families still require correct configuration and cable-system design.

6 Why does coax shield bonding matter for 140CRP93200?

The shield connects to chassis ground. Poor bonding or an unsuitable cable path can affect noise immunity and network reliability.

7 What does a Com Act blink sequence add to 140CRP93200 diagnosis?

The sequence can identify an internal or communications error category. Record the complete pattern and compare it with the error table before resetting the head.

8 Why should I/O values be checked during 140CRP93200 acceptance rather than LEDs alone?

A live network indication does not prove that each application word maps to the correct remote point. Trace representative inputs and outputs to their configured drops.

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05 Selection boundary and service reference

Identify the offered assembly

Confirm CRP93200 and both coaxial path assignments. Request available label and connector photos. Have your maintenance team compare the offered 140CRP93200 with the installed equipment and applicable Schneider Electric documents.

Lifecycle and replacement assessment

The current production and manufacturer-support stage for this exact execution is unconfirmed. Replacement requires agreement of the installed interfaces, operating limits and configuration; a similar catalog number does not establish interchangeability.

Companion equipment and scope

Confirm the RIO head; adapters, coaxial cables and termination components are separate. A related product is not an automatic substitute; assess the installed interface and application requirements independently.

Engineering handover

Confirm representative remote input and output words as well as diagnostics. Record path-specific results before returning the network to service. Retain the complete hardware identities, approved configuration and accepted test outcome with the installation record.

Related product references

Schneider Electric 140NOM21200

Schneider Electric 140AMM09000

Schneider Electric 140ACO13000

Technical basis: Schneider Electric Quantum Hardware Reference 35013379, 12/2013, CRP93X00. Apter Power technical synthesis for this product configuration.