

Schneider Electric

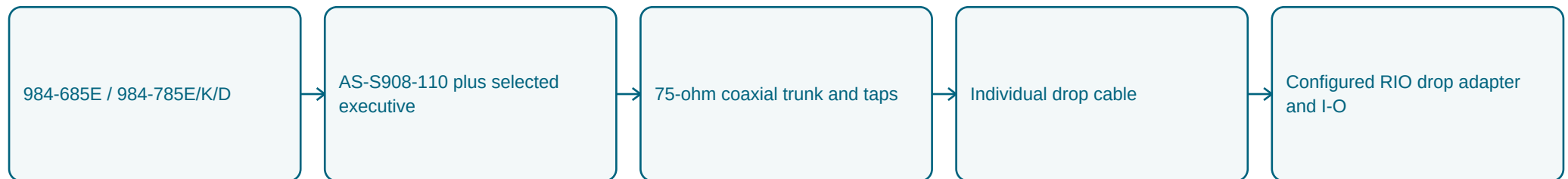
AS-S908-110

RIO Processor

Schneider Electric AS-S908-110 is a single-port S908 remote-I/O head processor option for the documented 984-685E and 984-785E/K/D controller configurations. It links the controller to remote drop adapters through the planned coaxial RIO cable system.

Schneider Electric AS-S908-110 provides the single-port head-end communication path for the listed 984 S908 remote-I/O systems. The controller, executive cartridge, drop map and coaxial media design together determine the usable network.

Functional position



Select the S908 executive for the actual controller and remote-drop allocation: AS-E908-016 supports 15 remote drops and AS-E908-131 supports 31 in the listed 984 configurations. A single-port AS-S908-110 does not provide the two head ports required for redundant cabling.

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AS-S908-110

Control and integration highlights

Initiates exchanges with the configured remote-I/O drops.

Connects the listed slot-mount 984 controllers to the S908 cable system.

Uses a planned trunk, taps and individual drop connections.

Works with the executive-defined remote-drop allocation.

Technical capability map

Processor role	S908 RIO head, master node
RIO ports	1
Listed host controllers	984-685E and 984-785E/K/D
RIO media	75-ohm coaxial cable system
Executive AS-E908-016	Up to 15 remote drops in the listed 984 systems
Executive AS-E908-131	Up to 31 remote drops in the listed 984 systems
Head-to-drop attenuation limit	35 dB for the listed slot-mount S908 systems
Drop addressing	Unique address per remote adapter
Trunk layout	Single-cable linear topology

Trunk terminator	52-0422-000, 75 ohms
Unused tap-port terminator	52-0402-000
Trunk splitter allowance	1; a second is permitted for the documented hot-standby head connection
Drop connection	Individual tap port and drop cable; never direct to trunk
Typical trunk medium	RG-11; RG-6 permitted for small networks
Typical drop medium	RG-6; RG-11 used where the plan requires lower loss or improved noise immunity
Cable-system ground	Common low-impedance single-point ground near the RIO head
Supported 800-Series drop interfaces	Listed J890/J892 and P890/P892 variants; match connector and termination version

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Integration and applications

984 remote-I/O head end

Provides the RIO master path for the listed 984-685E and 984-785E/K/D controller configurations.

800-Series I/O continuity

Maintains the documented legacy remote-I/O arrangement with the appropriate J890/J892 or P890/P892 adapter variants.

Single-trunk distributed drops

Communicates with independently addressed remote adapters connected through individual taps and drop cables.

Coaxial-network maintenance

Supports restoration of the approved S908 topology followed by documented grounding, media and communication checks.

The cable system is part of the installation, not an Ethernet accessory. Retain the drop addresses, appropriate terminators and approved grounding arrangement, then verify network integrity and communication to each configured drop.

Integration boundary

The last tap's trunk-out port must hold the trunk terminator; the trunk must not be terminated by a direct connection to a drop adapter. Unused tap drop ports remain terminated even if installed for later expansion. Confirm which older adapters require external drop termination.

Two-path redundant cabling requires two head ports and two ports on every participating drop adapter; that is not the single-port AS-S908-110 configuration.

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Model-specific engineering FAQ

How does the executive cartridge change the AS-S908-110 remote-drop limit?

For the listed 984-685E and 984-785E/K/D systems, AS-E908-016 supports 15 remote drops and AS-E908-131 supports 31. Check the installed executive rather than assuming the higher limit.

Can AS-S908-110 provide redundant A/B coaxial paths?

No. It is listed as a one-port RIO head. Redundant cabling requires two ports at the head and two ports on every participating drop adapter.

May a remote adapter connect directly to the AS-S908-110 trunk?

No. Connect each adapter through an individual tap port and drop cable. A direct adapter-to-trunk connection causes an impedance mismatch.

Which connections must remain terminated while servicing an AS-S908-110 network?

Keep the trunk end and unused tap ports terminated at all times. A disconnected drop cable may also require a 75-ohm terminator, especially during extended maintenance or on a time-critical network.

Does removing AS-S908-110 permit removal of the cable-system ground?

No. The permanent central ground must remain connected even when the RIO head is disconnected. Use the approved common, low-impedance single-point cable-system ground.

What controls the longest usable AS-S908-110 coaxial route?

Use the head-to-drop loss calculation, not cable length alone. The listed slot-mount S908 systems have a 35 dB dynamic range; include cable, tap, splitter, splice and terminator losses in the path.

Do physical drop positions determine AS-S908-110 RIO addresses?

No. Each remote adapter needs its own unique configured address. Its location along the cable does not determine that address or the network throughput.

What should be checked before replacing AS-S908-110 when drop retries increase?

Inspect cable routing, earth grounding and connectors first, then use documented network tests to isolate media problems. Excessive retries can result from noise or installation defects rather than a failed head processor.

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Installation and service precautions

Read the S908 network instructions before work. Verify AS-S908-110, its host controller and executive cartridge, the configured drop map, coaxial termination and the approved maintenance state.

01

Match the head processor to the listed 984 controller and the installed executive cartridge.

02

Keep the drop count within the selected executive's 15- or 31-drop allocation; do not treat either limit as universal.

03

Retain the single-port topology; redundant cabling requires two head ports and matching dual-port drop adapters.

04

Connect every drop through its own tap port and drop cable, never directly to the trunk.

05

Keep the trunk end and unused tap ports terminated with the correct 75-ohm components.

06

Preserve the permanent single-point cable ground when disconnecting the RIO head; do not leave the system floating.

07

Maintain approved cable routing and connector installation; keep shield braid clear of the center conductor.

08

Test network integrity and verify every configured drop after restoration before releasing the process.

Two-path redundant cabling requires two head ports and two ports on every participating drop adapter; that is not the single-port AS-S908-110 configuration.

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Evidence and related portfolio

Technical evidence record

S908 Remote I/O Cable, System Planning and Installation Guide - 35014629, 07/2017

Related portfolio navigation

These separate product pages are reference navigation, not a statement of interchangeability or approval for the installed system.

Schneider Electric AS-P890-000	View Schneider Electric AS-P890-000 page
Schneider Electric PC-E984-685	View Schneider Electric PC-E984-685 page
Schneider Electric 140CRP93200	View Schneider Electric 140CRP93200 page
Schneider Electric 140NRP95400	View Schneider Electric 140NRP95400 page
Schneider Electric 140CHS11000	View Schneider Electric 140CHS11000 page
Schneider Electric 140XBP01000	View Schneider Electric 140XBP01000 page

The technical reference maps the S908 head, executive and coaxial network limits; the installation guide separates topology checks, termination, grounding, media inspection and network acceptance.

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