

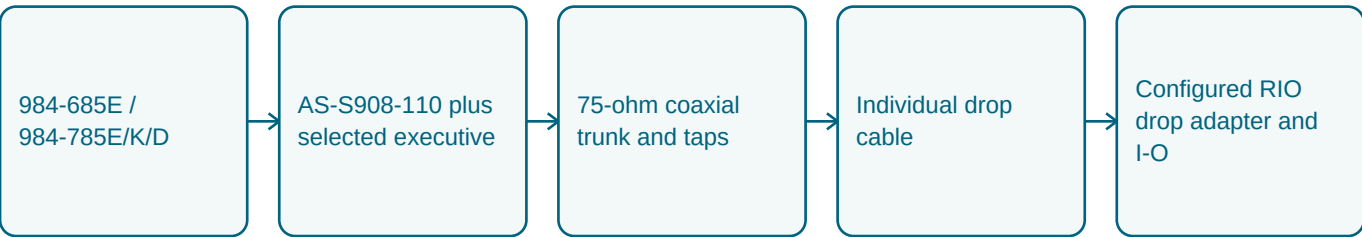
Schneider Electric

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.

System position



Match the controller and executive

AS-S908-110 is listed as a one-port option module for 984-685E and 984-785E/K/D controllers. The executive controls the supported remote-drop allocation. The head is the network master; remote adapters communicate with that head rather than acting as independent masters.

AS-E908-016	15 remote drops for the listed controllers
AS-E908-131	31 remote drops for the listed controllers
Head port count	One
Network role	RIO head / master node

Evidence: 35014629 pp.13,18

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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Interfaces and integration

Keep a valid single-trunk architecture

A single-cable linear network links the head to remote adapters through taps and drop cables. Two-path redundant cabling requires two ports on both the head and the drop adapters, so it must not be advertised as a function of the single-port AS-S908-110.

AS-S908-110 layout	Single-port head and planned linear cable path
Tap function	Couples the drop and isolates it from the trunk and other drops
Normal splitter limit	One trunk splitter
Hot-standby exception	Second splitter for the documented connection between two heads

Evidence: 35014629 pp.16,20-26

Assign each drop independently

The drop's configured address is independent of its physical position on the trunk. Use one adapter per tap drop port. Labels should identify cable segments and taps by the corresponding PLC I-O-map drop, preserving the relation between the electrical layout and the application configuration.

Address rule	Unique address for every remote adapter
984 drop switch type	DIP switches
Quantum drop switch type	Rotary switches
Connection rule	One adapter per tap drop port
Service information	Adapter identity, PROM revision and configured drop reference

Evidence: 35014629 pp.15,61,124,140

Engineering decision

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.

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Technical resource bands

Read the exact model limits separately from system configuration and software-context values. No nearby-model electrical value is substituted.

Processor role	S908 RIO head, master node	Trunk terminator	52-0422-000, 75 ohms
RIO ports	1	Unused tap-port terminator	52-0402-000
Listed host controllers	984-685E and 984-785E/K/D	Trunk splitter allowance	1; a second is permitted for the documented hot-standby head connection
RIO media	75-ohm coaxial cable system	Drop connection	Individual tap port and drop cable; never direct to trunk
Executive AS-E908-016	Up to 15 remote drops in the listed 984 systems	Typical trunk medium	RG-11; RG-6 permitted for small networks
Executive AS-E908-131	Up to 31 remote drops in the listed 984 systems	Typical drop medium	RG-6; RG-11 used where the plan requires lower loss or improved noise immunity
Head-to-drop attenuation limit	35 dB for the listed slot-mount S908 systems	Cable-system ground	Common low-impedance single-point ground near the RIO head
Drop addressing	Unique address per remote adapter	Supported 800-Series drop interfaces	Listed J890/J892 and P890/P892 variants; match connector and termination version
Trunk layout	Single-cable linear topology		

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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Controls and service logic

Preserve the permanent grounding path

Use a common low-impedance cable-system ground near the RIO head in the same equipotential room. Other taps remain isolated from grounded metal unless intentionally chosen as the central ground. Disconnecting the head must not disconnect the permanent cable-system ground.

Central ground	Approved tap, splitter or ground block
Other taps	Isolated from grounded metallic surfaces
Connected equipment	Ground all nodes according to the installed design
Head disconnection	Maintain the cable system's permanent earth connection

Evidence: 35014629 pp.48,50,138

Budget the complete head-to-drop loss

For the listed slot-mount S908 configuration, calculate all losses between the head and each drop against the 35 dB limit. Cable alone is not the path. Include the taps, splitters, splices, connectors and feed-through terminators; preserve operating margin instead of designing at a barely detectable receive level.

Dynamic-range basis	35 dB for the listed slot-mount controllers
Tap drop loss	14 dB
Tap insertion loss	0.8 dB
Loss ledger	Cable plus every intervening media component
Practical check	Allow margin for receive-level variation

Evidence: 35014629 pp.13,45,53,62

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Engineering decisions

Inspect the connector before blaming the head

Excessive retries often arise from noise, grounding or installation defects. Inspect connectors for correct seating and ensure braid strands do not short to the center conductor. Use off-line media tests where the fault is not visible; on-line statistics alone do not prove cable integrity.

Routing fault	Coax close to AC or DC power services
Ground fault	Missing or ineffective low-impedance earth path
Connector fault	Loose attachment or braid-to-center short
Hidden media defect	Requires documented network testing
On-line evidence	Indicators and statistics assist fault isolation

Evidence: 35014629 pp.142,144-146

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.

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

Technical evidence record

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

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