

Allen-Bradley 1794-ACN15

ControlNet Adapter / Identity and operating role

Allen-Bradley 1794-ACN15 is a nonredundant FLEX I/O ControlNet adapter supporting up to eight I/O modules at a 5 Mbps communication rate.

Network	ControlNet
Redundancy	Nonredundant adapter
I/O capacity	8 modules
Communication rate	5 Mbps
Node address	01 to 99
Supply input	19.2 to 31.2 V DC, 400 mA

MODEL-SPECIFIC POINT

Nonredundant ControlNet adapter

MODEL-SPECIFIC POINT

Eight-module FLEX I/O capacity

MODEL-SPECIFIC POINT

5 Mbps communication rate

MODEL-SPECIFIC POINT

Valid node addresses 01 to 99

Important Notice: 1794-ACN15 is the nonredundant adapter. Connect the ControlNet cable to terminal A, set a unique node address from 01 to 99, and remove power before cable, wiring or backplane work.

IDENTITY CONTROL

Match the complete model and installed record before any replacement decision.

CONFIGURATION CONTROL

Retain the project, addresses, wiring or network data and acceptance evidence together.

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ControlNet Adapter / System integration and applications

The adapter forms the FLEX I/O station connection to a ControlNet network, mounts on a grounded 35 mm DIN rail and supplies the Flexbus. Node address, coax connection, 24 V DC power and adjacent terminal-base connection are retained as one station record.

ControlNet FLEX I/O station

Connects a local bank of FLEX I/O modules to a scheduled ControlNet system.

Deterministic remote I/O

Transfers time-critical I/O and messaging traffic over the installed ControlNet network.

Legacy adapter renewal

Replaces the exact nonredundant adapter while retaining station address and coax topology.

Network diagnostics

Uses Status and Comm indicators to distinguish power, node, cable and configuration conditions.

Additional manufacturer data

Flexbus output	5 V DC, 640 mA
Inrush current	14 A for 2 ms
ControlNet cable	Belden RG-6/U
Operating temperature	-25 to +55 degrees C
Terminal torque	0.8 N m

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 Allen-Bradley 1783-LMS8

02 Allen-Bradley 1756-ENBT-A

APPLICATION BOUNDARY

The examples describe the documented system role and do not establish interchangeability.

SELECTION EVIDENCE

Confirm the exact model against the installed drawing, project record and field arrangement.

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ControlNet Adapter / Installation and commissioning

01 / CONTROLLED STEP

Confirm the full 1794-ACN15 marking; do not substitute a redundant ACNR version by family name.

02 / CONTROLLED STEP

Place the connected process and ControlNet station in an approved maintenance state.

03 / CONTROLLED STEP

Remove adapter, backplane and field power before cable, wiring or module work.

04 / CONTROLLED STEP

Record the node address, network schedule, station module list and firmware revision.

05 / CONTROLLED STEP

Connect the nonredundant ControlNet trunk only to connector A.

06 / CONTROLLED STEP

Ground the specified DIN rail and retain proper end anchors and enclosure protection.

Release gate

Torque power terminals to 0.8 N m and keep power wiring within the published length. Restore power and verify Status/Comm indications before proving all scheduled I/O.

Exact identity	1794-ACN15
Installed position	Record rack, slot and station assignment
Configuration	Retain project, addresses, signal modes and network data
Acceptance	Record diagnostics and witnessed functional response

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 Allen-Bradley 1756-EN2T

02 Allen-Bradley 1783-CMS10DP

PRE-ENERGIZATION

Recheck identity, seating, wiring, grounding, signal mode and every applicable protective device.

FUNCTIONAL ACCEPTANCE

Review diagnostics and prove the intended response before the process is released.

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ControlNet Adapter / Model-specific engineering questions

What is Allen-Bradley 1794-ACN15?

It is a nonredundant FLEX I/O adapter for a ControlNet network.

What communication rate does Allen-Bradley 1794-ACN15 use?

The published ControlNet communication rate is 5 Mbps.

Is Allen-Bradley 1794-ACN15 redundant?

No. The manufacturer identifies 1794-ACN15 as the nonredundant version; redundant media uses an ACNR model.

What supply is required by Allen-Bradley 1794-ACN15?

The current installation instructions specify 19.2 to 31.2 V DC at 400 mA input and a 5 V DC, 640 mA Flexbus output.

How many I/O modules can Allen-Bradley 1794-ACN15 support?

The manufacturer specifies a capacity of eight FLEX I/O modules.

Which node addresses are valid for Allen-Bradley 1794-ACN15?

The installation instructions specify settings from 01 through 99.

Which ControlNet connector is used on Allen-Bradley 1794-ACN15?

Connect the network cable to connector A; connector B applies to the redundant ACNR adapters.

How is Allen-Bradley 1794-ACN15 released to service?

Confirm node uniqueness, coax connection, power and Flexbus seating, then review Status and Comm indicators and prove scheduled I/O exchange.

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 Allen-Bradley 1797-ACNR15

Acceptance record

Identify the exact model, restored configuration, diagnostic state and witnessed response. Preserve the record with the controlled maintenance history.

Identity	Complete manufacturer and model marking verified
Configuration	Installed project, mapping, wiring or network data restored
Diagnostics	Relevant module and system indicators reviewed
Release	Intended field response witnessed and recorded

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ControlNet Adapter / Evidence and support

EVIDENCE BOUNDARY

Only exact manufacturer material supports the stated facts; nearby suffixes are not treated as substitutes.

DOCUMENT USE

Use this file with the installed drawing, project backup and controlled maintenance procedure.

Manufacturer	Allen-Bradley
Exact model	1794-ACN15
Product type	ControlNet Adapter
Product family	Allen-Bradley FLEX I/O
Evidence basis	Exact manufacturer publication

VERIFIED RELATED PRODUCTS

Catalog navigation only; compatibility, replacement or substitution is not implied.

01 Allen-Bradley 1786-RPFRL

MANUFACTURER SOURCE

Rockwell Automation FLEX I/O ControlNet Adapters Installation Instructions

Publication 1794-IN128J-EN-P, November 2024

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Supply the exact model, quantity, destination and required condition when requesting a quotation.

Technical selection remains subject to the installed-system record and exact manufacturer evidence.

