

Allen-Bradley 1794-ACNR

The Allen-Bradley 1794-ACNR is a Flex I/O communication adapter. This adapter is a DIN rail mounted device, which features dual ControlNet port, used in implementation of Redundant ControlNet data highway. It supports up to Eight (8) Flex IO modules. Technical specifications for 1794-ACNR

Manufacturer <a href=

Power Consumption: 400mA maximum from external 24V supply

Operating Shock: IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30 g

Vibration: IEC 60068-2-6 (Test Fc, Operating) IEC 60068-2-6 (Test Fc, Operating): 5 g @ 10...500 Hz

Operating Temperature: -20...55 ° C -4...131 ° F)

Surrounding Temperature: 55 ° C (131 ° F)

ControlNet cable: 3.31 mm² (12 AWG) stranded max 1.2 mm (3/64 in.), insulation, max

Mounting: DIN Rail

ControlNet Protocol: V 1.25

Data Transfer speed: 5 Mbps

Indicators: Comm A: red/grn Comm B: red/grn I/O status- red/grn

Communication Port: Two (2) ControlNet BNC

Product Description: Redundant ControlNet Adapter Module

Power Dissipation 4.6W maximum @ 19.2V dc

Brand Allen-Bradley

Thermal Dissipation 15.7 BTU/hr @ 19.2V dc

Part Number/Catalog No. 1794-ACNR

Product Type Flex I/O Controlnet Redundant Media Adapter

Voltage 24 Volts DC

Input Voltage Range 19.2 to 31.2 Volts DC

Flexbus Output Current 640 mA max.

Isolation Voltage 850 Volts DC

Specification List This specification list has been compiled by Do-Supply-Inc.

Communication Rate 5M bps

Inrush Current 23A for 2 milliseconds Description

The 1794-ACNR is an Allen-Bradley module that belongs to the 1794 Flex I/O product family. It functions as a ControlNet communication adapter, allowing Flex I/O modules to exchanged data to and from the controller via ControlNet protocol.

The 1794-ACNR is a communication adapter that support redundant ControlNet connection. It has Two (2) ControlNet ports, allowing each port to tap to redundant ControlNet Trunk for establishing high-availability network. On each of the ControlNet port, up to 5Mbps transmission speed is supported via Belden RG-6/U ControlNet cable.

You can contact us through the following contact information

www.sparetechplc.com +86 180 3000 5825 sales@sparetechplc.com

Up to Eight (8) Flex I/O modules may be installed along this communication adapter. This Flex I/O module may come in specific combinations of Discrete Input and Output modules, Analog input and output modules as well as specialty modules. The 1794-ACNR sends data of the Flex I/O input modules and accepts controller command to be implemented by the Flex I/O output modules.

The 1794-ACNR is powered by an external power supply with voltage range of 19.2...31.2V DC, 400 mA and nominal value of 24VDC. It can withstand an inrush current amounting to 14A for 2 ms. It is also built with LED indicators for convenient troubleshooting of the device such as I/O Status, Comm A and Comm B LED indicators. It has an isolation voltage of 50V (continuous), Basic Insulation Type tested @ 860V AC for 60 s and designed to operate at a temperature range of -20...55 ° C -4...131 ° F). The module comes with an open-type enclosure thus, it requires a proper enclosure during installation.

The maximum Flexbus output current is 640 mA at 5 Volts DC. The module's maximum power dissipation is 4.6 Watts at 19.2 Volts DC and the thermal dissipation is 15.7 BTU/hour at 19.2 Volts DC. The 1794-ACNR module's operating temperature is -20 to 55 degrees Celsius and its non-operating temperature is -40 to 85 degrees Celsius. It has a maximum ambient air temperature of 55 degrees Celsius and a non-condensing relative humidity of 5 to 95%. This module also has an operating vibration of 5 G at 10 to 500 Hertz, an operating shock of 30 G, and a non-operating shock of 50 G. Red and green indicators are present with this module, particularly 1 status indicator and 2 communication indicators. The module can be mounted with a DIN rail mount or a panel mount. The 1794-ACNR module has an open-type enclosure and measures 3.7 x 3.6 x 3.4 inches. The ControlNet protocol is v1.25 and 2 ControlNet BNC ports are present with this module. It can connect to up to 8 terminal base units that have FLEX I/O modules installed, making a FLEX I/O system of up to 8 slots. The power supply used with this module should have a Safety Extra Low Voltage (SELV) or a Protected Extra Low Voltage (PELV) to comply with the CE Low Voltage Directives (LVD).

You can contact us through the following contact information

www.sparetechplc.com +86 180 3000 5825 sales@sparetechplc.com