

Installation Instructions

Original Instructions



Allen-Bradley

by ROCKWELL AUTOMATION

FLEX I/O Dual Port EtherNet/IP Adapter Modules

Catalog Numbers 1794-AENTR, 1794-AENTRXT Series A

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Summary of Changes

This publication contains the following new or updated information. This list includes substantive updates only and is not intended to reflect all changes.

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Updated template	throughout
Updated UK and European Hazardous Location Approvals	3
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Environment and Enclosure



ATTENTION: This equipment is intended for use in a Pollution Degree 2 industrial environment, in overvoltage Category II applications (as defined in IEC 60664-1), at altitudes up to 2000 m (6562 ft) without derating.

This equipment is not intended for use in residential environments and may not provide adequate protection to radio communication services in such environments.

This equipment is supplied as open-type equipment. It must be mounted within an enclosure that is suitably designed for those specific environmental conditions that will be present and appropriately designed to prevent personal injury resulting from accessibility to live parts. The enclosure must have suitable flame-retardant properties to prevent or minimize the spread of flame, complying with a flame spread rating of 5VA or be approved for the application if nonmetallic. The interior of the enclosure must be accessible only by the use of a tool. Subsequent sections of this publication may contain additional information regarding specific enclosure type ratings that are required to comply with certain product safety certifications.

In addition to this publication, see the following:

- Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#), for additional installation requirements.
- NEMA Standard 250 and IEC 60529, as applicable, for explanations of the degrees of protection provided by enclosures.

Prevent Electrostatic Discharge



ATTENTION: This equipment is sensitive to electrostatic discharge, which can cause internal damage and affect normal operation. Follow these guidelines when you handle this equipment:

- Touch a grounded object to discharge potential static.
- Wear an approved grounding wriststrap.
- Do not touch connectors or pins on component boards.
- Do not touch circuit components inside the equipment.
- Use a static-safe workstation, if available.
- Store the equipment in appropriate static-safe packaging when not in use.

UK and European Hazardous Location Approval

The following adapters are European Zone 2 approved: 1794-AENTR, 1794-AENTRXT Series A.

The following applies to products marked :

- Are Equipment Group II, Equipment Category 3, and comply with the Essential Health and Safety Requirements relating to the design and construction of such equipment given in Schedule 1 of UKEX and Annex II of EU Directive 2014/34/EU. See the UKEx and EU Declaration of Conformity at [rok.auto/certifications](#) for details.
- The type of protection is Ex ec IIC T5 Gc for 1794-AENTR and Ex ec IIC T4 Gc for 1794-AENTRXT according to EN IEC 60079-0:2018, EXPLOSIVE ATMOSPHERES - PART 0: EQUIPMENT - GENERAL REQUIREMENTS, Issue Date 07/2018 and EN IEC 60079-7:2015+A1:2018, Explosive atmospheres. Equipment protection by increased safety "e".
- Comply to Standard EN IEC 60079-0:2018, EXPLOSIVE ATMOSPHERES - PART 0: EQUIPMENT - GENERAL REQUIREMENTS, Issue Date 07/2018, EN IEC 60079-7:2015+A1:2018 Explosive atmospheres. Equipment protection by increased safety "e", reference certificate number DEMKO 14 ATEX 1342501X and UL22UKEX2378X.
- Are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification according to UKEX regulation 2016 No. 1107 and ATEX directive 2014/34/EU.

IEC Hazardous Location Approval

The following applies to products marked with IECEx certification:

- Are intended for use in areas in which explosive atmospheres caused by gases, vapors, mists, or air are unlikely to occur, or are likely to occur only infrequently and for short periods. Such locations correspond to Zone 2 classification to IEC 60079-0.
- The type of protection is Ex ec IIC T5 Gc for 1794-AENTR and Ex ec IIC T4 Gc for 1794-AENTRXT according to IEC 60079-0 and IEC 60079-7.
- Comply to Standards IEC 60079-0, Explosive atmospheres Part 0: Equipment - General requirements, Edition 7, Revision Date 2017, IEC 60079-7, 5.1 Edition revision date 2017, Explosive atmospheres - Part 7: Equipment protection by increased safety "e", reference IECEx certificate number IECEx UL 14.0066X.



WARNING: Special Conditions for Safe Use:

- This equipment shall be mounted in an UKEX/ATEX/IECEx Zone 2 certified enclosure with a minimum ingress protection rating of at least IP54 (in accordance with EN/IEC 60079-0) and used in an environment of not more than Pollution Degree 2 (as defined in EN/IEC 60664-1) when applied in Zone 2 environments. The enclosure must be accessible only by the use of a tool.
- This equipment shall be used within its specified ratings defined by Rockwell Automation.
- Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.
- This equipment must be used only with UKEX/ATEX/IECEx certified Rockwell Automation backplanes.
- Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product.
- Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous.
- Earthing is accomplished through mounting of modules on rail.
- Enclosure must be marked with the following: "Warning - Do not open when energized" After installation of equipment into the enclosure, access to termination compartments shall be dimensioned so that conductors can be readily connected.
- For Class I Division 2 applications, use only Class I Division 2 listed or recognized accessories and modules approved for use within the 1794 platform.

North American Hazardous Location Approval

The following modules are North American Hazardous Location approved: 1794-AENTR, 1794-AENTRXT Series A.

The Following Information Applies When Operating This Equipment In Hazardous Locations.	Informations sur l'utilisation de cet équipement en environnements dangereux.
<p>Products marked "CL I, DIV 2, GP A, B, C, D" are suitable for use in Class I Division 2 Groups A, B, C, D, Hazardous Locations and nonhazardous locations only. Each product is supplied with markings on the rating nameplate indicating the hazardous location temperature code. When combining products within a system, the most adverse temperature code (lowest "T" number) may be used to help determine the overall temperature code of the system. Combinations of equipment in your system are subject to investigation by the local Authority Having Jurisdiction at the time of installation.</p>	<p>Les produits marqués "CL I, DIV 2, GP A, B, C, D" ne conviennent qu'à une utilisation en environnements de Classe I Division 2 Groupes A, B, C, D dangereux et non dangereux. Chaque produit est livré avec des marquages sur sa plaque d'identification qui indiquent le code de température pour les environnements dangereux. Lorsque plusieurs produits sont combinés dans un système, le code de température le plus défavorable (code de température le plus faible) peut être utilisé pour déterminer le code de température global du système. Les combinaisons d'équipements dans le système sont sujettes à inspection par les autorités locales qualifiées au moment de l'installation.</p>

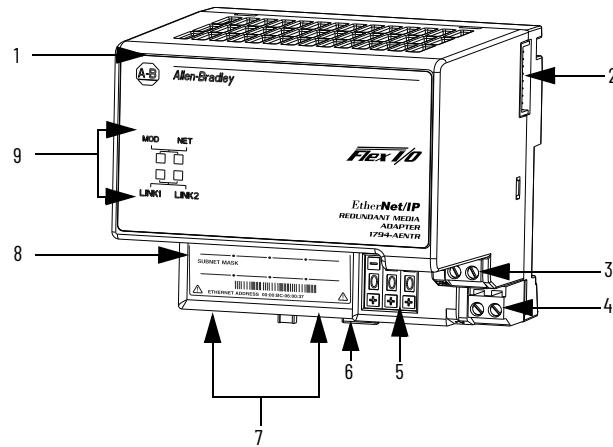
	<p>WARNING: Explosion Hazard -</p> <ul style="list-style-type: none"> Do not disconnect equipment unless power has been removed or the area is known to be nonhazardous. Do not disconnect connections to this equipment unless power has been removed or the area is known to be nonhazardous. Secure any external connections that mate to this equipment by using screws, sliding latches, threaded connectors, or other means provided with this product. Substitution of components may impair suitability for Class I, Division 2. 		<p>AVERTISSEMENT: Risque d'Explosion -</p> <ul style="list-style-type: none"> Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher l'équipement. Couper le courant ou s'assurer que l'environnement est classé non dangereux avant de débrancher les connecteurs. Fixer tous les connecteurs externes reliés à cet équipement à l'aide de vis, loquets coulissants, connecteurs filetés ou autres moyens fournis avec ce produit. La substitution de composants peut rendre cet équipement inadapté à une utilisation en environnement de Classe I, Division 2.
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ATTENTION: This product is grounded through the DIN rail to chassis ground. Use zinc plated chromate-passivated steel DIN rail to assure proper grounding. The use of other DIN rail materials (for example, aluminum or plastic) that can corrode, oxidize, or are poor conductors, can result in improper or intermittent grounding. Secure DIN rail to mounting surface approximately every 200 mm (7.8 in.) and use end-anchors appropriately. Be sure to ground the DIN rail properly. See the Industrial Automation Wiring and Grounding Guidelines, Rockwell Automation publication [1770-4J](#), for more information.

Overview

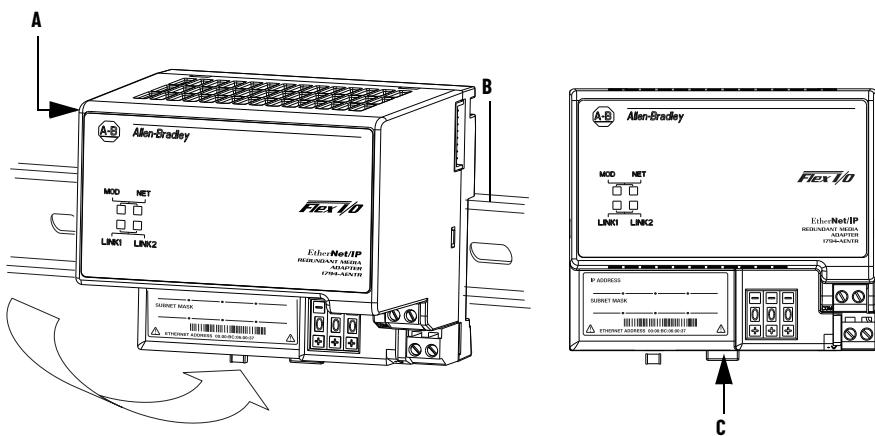
Read this publication for installation information on the Series A, FLEX™ I/O Dual Port EtherNet/IP™ Adapter modules.

Figure 1 - FLEX I/O Dual Port EtherNet/IP Adapter



	Description		Description
1	Dual-port EtherNet/IP adapter	6	Module locking tab
2	Flexbus connector	7	Network cable RJ45 connectors (underside)
3	24V common connections	8	MAC ID label
4	24V DC connections	9	Status indicators
5	IP address switches		

Install Your Adapter

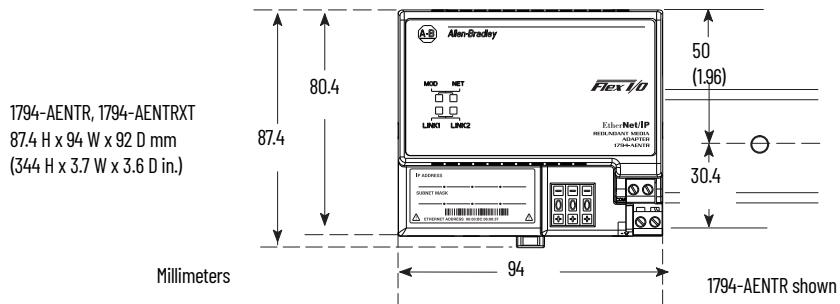


ATTENTION: During mounting of all devices, be sure that all debris (for example, metal chips, wire strands) is kept from falling into the module. Debris that falls into the module could cause damage on power up.



ATTENTION: Do not remove or replace an Adapter Module while power is applied. Interruption of the backplane can result in unintentional operation or machine motion.

Mounting Dimensions



Mount on a DIN Rail

1. Position the adapter module (**A**) on an IEC standard (35 x 7.5 x 1 mm) top-hat DIN rail (**B**) at a slight angle (DIN rail: Allen-Bradley® part number 199-DR1; 46277-3; EN50022).
2. Hook the lip on the rear of the adapter onto the top of the DIN rail, and rotate the adapter module onto the rail.
3. Press the adapter module down onto the DIN rail until flush. Locking tab (**C**) snaps the adapter into position and locks it onto the DIN rail.
4. If the adapter module does not lock in place, use a screwdriver or similar device to move the locking tab down while pressing the adapter module flush onto the DIN rail, and release the locking tab to lock the adapter module in place. If necessary, push up on the locking tab to lock.
5. Connect the adapter wiring as shown in [Connect Wiring on page 7](#).

Mount on a Panel or Wall

If mounting this adapter to a panel or wall, refer to the Panel Mounting Kit Installation Instructions, publication [1794-IN135](#).



WARNING: If you insert or remove the module while backplane power is on, an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.



WARNING: When used in a Class I, Division 2, hazardous location, this equipment must be mounted in a suitable enclosure with proper wiring method that complies with the governing electrical codes.

Mount or Replace the Adapter on an Existing System

1. Disconnect any wiring jumpered to the adjacent terminal base.
2. Remove the Ethernet connectors from the bottom of the adapter.



WARNING: If you connect or disconnect the communication cable with power applied to the adapter or any device on the network, an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

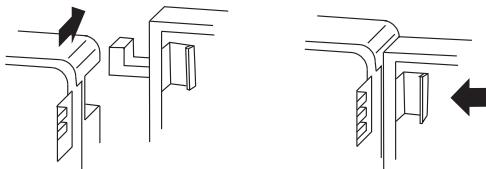
3. Disconnect any user power wiring connections to the adapter.
4. Open the module latching mechanism and remove the module from the base unit to which the adapter will be attached.
5. Push the Flexbus connector toward the right side of the terminal base to unplug the backplane connection.



ATTENTION: Make certain the Flexbus connector is completely clear of the adapter. The slide must be completely to the right and the raised spot on the slide visible.

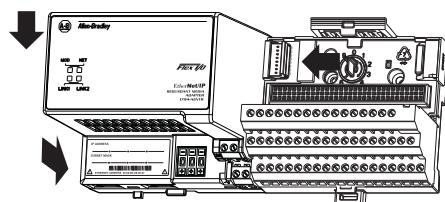
6. Release the locking tab and remove the adapter module.

Before installing the new adapter, notice the notch on the right rear of the adapter. This notch accepts the hook on the terminal base unit. The notch is open at the bottom. The hook and adjacent connection point keep the terminal base and the adapter tight together, reducing the possibility of a break in communication over the backplane.



7. Complete the adapter mounting as shown below.

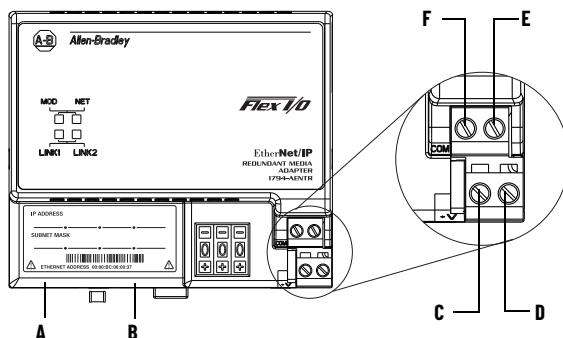
Push down and in at the same time to lock the adapter to the DIN rail. If the adapter does not lock in place, use a screwdriver or similar device to move the locking tab down while pressing the adapter flush onto the DIN rail, and release the locking tab to lock the adapter module in place. If necessary, push up on the locking tab to lock.



When the adapter is locked onto the DIN rail, gently push the Flexbus connector into the adapter to complete the backplane.

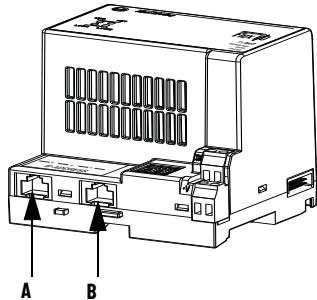
8. Reinstall the module in the adjacent terminal base unit.

Connect Wiring



WARNING: If you connect or disconnect wiring while the field-side power is on, an electrical arc can occur. This could cause an explosion in hazardous location installations. Be sure that power is removed or the area is nonhazardous before proceeding.

1. Connect an Ethernet network cable to the RJ45 connector (**A**).
2. Connect the redundant Ethernet network cable to the RJ45 connector (**B**).



ATTENTION:

- When connecting wiring, torque terminal screws C, D, E and F to 0.8 N·m (7 lb·in).
- If multiple power sources are used, do not exceed the specified isolation voltage.
- Power wiring must be less than 10 m (32.8 ft.) in length.
- Do not wire more than two conductors on any single terminal.

3. Connect 24V DC common to the left side of the upper connector, terminal **F**.
4. Connect +24V DC input power to the left side of the lower connector, terminal **C**.
5. Connections **D** and **E** are used to pass +24V DC common (**E**) and 24V DC power (**D**) to the next module in the series (if required).

Set the Network Address

The adapter ships with the thumbwheel switches set to 999 and DHCP enabled. You can set the network Internet Protocol (IP) address in these ways:

- Use the thumbwheel switches on the module.
- Use a Dynamic Host Configuration Protocol (DHCP) server, such as Rockwell Automation® DHCP.
- Retrieve the IP address (if previously set) from nonvolatile memory.

The adapter reads the thumbwheel switches first to determine if the switches are set to a valid number. You set the node address by using the three-position thumbwheel switch. Press the + or - buttons to change the number. Valid settings are 001...254.

When the switches are set to a valid number, the adapter's IP address is 192.168.1.xxx (where xxx represents the number set on the switches). The adapter subnet mask is set to 255.255.255.0. The adapter gateway address is set differently depending on the firmware revision:

- For Firmware Revision 1.013 and earlier, when the address switches are set to 001...254, the adapter gateway address is set to 0.0.0.0.
- For Firmware Revision 1.014, when the address switches are set to 001, the adapter gateway address is set to 0.0.0.0. When the address switches are set to 002...254, the adapter gateway address is set to 192.168.1.1.

The adapter does not have a host name assigned, or use any Domain Name System when using the thumbwheel settings.



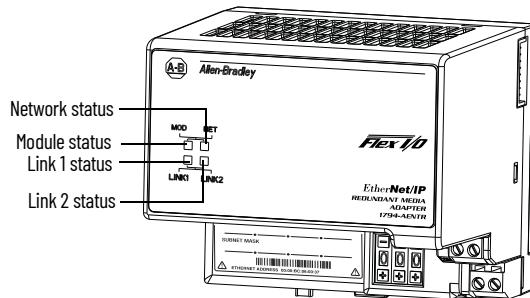
If you set the switches to an invalid number (such as 000, or a value greater than 254), the adapter checks to see if you enabled DHCP.

DHCP Enabled and Not Enabled

DHCP State	Adapter Action
Enabled	Asks for an address from a DHCP server. The DHCP server also assigns other Transport Control Protocol (TCP) parameters.
Not enabled	Uses the IP address (along with other TCP configurable parameters) stored in nonvolatile memory.

Status Indicators

The module has LED status indicators to specify its status and aid the user in troubleshooting.



Status Indicators

Indicator	Status
Link 1 or Link 2 (individually)	
Off	No link exists. Verify network cabling. Correct as necessary.
Solid green	Link exists @ 100 Mbps.
Flashing green	I/O is being transmitted or received @ 100 Mbps.
Flashing yellow	I/O is being transmitted or received @ 10 Mbps.
Solid yellow	Link exists @ 10 Mbps.
Module Status Indicator	
Off	No power. Adapter does not have 24V DC power. Make sure power is being supplied to the adapter.
Flashing green	Standby. Adapter not configured. Configure adapter.
Green	Operational. Adapter operating correctly. No action required.
Flashing red	Minor fault. A recoverable fault has been detected. This could be caused by an incorrect or inconsistent configuration. Check configuration and reconfigure as needed.
Solid red	Major fault. An unrecoverable fault has been detected. Recycle power to the adapter. If this does not clear the fault, replace the adapter.
Flashing red/green	Self test. Adapter performing power-up self test. Wait until completed.
Network Status Indicator	
Off	Not powered. No IP address. Adapter is not powered or does not have an IP address. <ul style="list-style-type: none"> Verify there is power and the adapter is correctly wired to the power supply. Make sure the adapter is configured.
Flashing green	No connection. Adapter has obtained an IP address, but has no established connections.
Green	CIP connections. Adapter has an IP address and at least one established connection.

Status Indicators (Continued)

Indicator	Status
Network Status Indicator	
Flashing red	Connection timeout. One or more of the connections in which the adapter is the target has timed out.
Red	Duplicate IP address. Adapter has detected that its IP address is already in use. Configure the adapter with a unique IP address.
Flashing red/green	Self-test. Adapter performing power-up self test.

Specifications

General Specifications

Attribute	1794-AENTR	1794-AENTRXT (1)
I/O module capacity	8	
Communication rate	10/100 Mbps	
Indicators	Module status - red/green Network status - red/green Link 1 status - yellow/green Link 2 status - yellow/green	
Enclosure type rating	None (open-style)	
Input voltage range	19.2...31.2V DC (includes 5% AC ripple)	
Input voltage, nom	24V DC	
Inrush current	18 A for 2 ms	
Flexbus output, max	640 mA @ 5V DC	
Isolation voltage	50V continuous, Basic Insulation Type Tested @ 1000V AC for 60 s, power to Flexbus to EtherNet/IP	
Power consumption, max	500 mA 400 mA @ 24V DC	
Power dissipation, max	7.1 W @ 19.2V DC	6.1 W @ 19.2V DC
Thermal dissipation	24.2 BTU/hr @ 24V DC	20.8 BTU/hr @ 24V DC
Wire size, power conductors	0.33...3.31 mm ² (22...12 AWG) stranded copper wire rated at 75 °C (167 °F) or greater, 1.2 mm (3/64 in.) insulation max	
Wire category (2)	1 - on power ports 1 - on communications ports	
Ethernet connector	2 Ethernet RJ45 Category 5	
North American temp code	T5	T4A
UKEx/ATEX temp code	T5	T4
IECEx temp code	T5	T4
Terminal screw torque	0.8 N•m (7 lb•in)	
Dimensions, approx. (H x W x D)	87 x 94 x 92 mm 3.4 x 3.7 x 3.6 in.	
Weight, approx.	227 g (8.01 oz)	

(1) 1794-AENTRXT module is conformally coated to meet noxious gas requirements of ISA/ANSI-71.040 1985 Class 63 Environment.

(2) Use this conductor category information for planning conductor routing as described in the system-level installation manual. See the Industrial Automation Wiring and Grounding Guidelines publication [1770-4.1](#).

Environmental Specifications

Attribute	1794-AENTR	1794-AENTRXT
Temperature, operating	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): 0...55 °C (32...131 °F)	-25...+70 °C (-13...+158 °F)
Temperature, surrounding air, max	55 °C (131 °F)	70 °C (158 °F)
Temperature, nonoperating	IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock): 40...+85 °C (-40...+185 °F)	

Environmental Specifications (Continued)

Attribute	1794-AENTR	1794-AENTRXT
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Nonoperating Damp Heat): 5...95% noncondensing	
Vibration	IEC 60068-2-6 (Test Fc, Operating): 5 g @ 10...500 Hz	
Shock, operating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 30 g	
Shock, nonoperating	IEC 60068-2-27 (Test Ea, Unpackaged Shock): 50 g	
Emissions	IEC 61000-6-4	
ESD immunity	IEC 61000-4-2: 6 kV contact discharges 8 kV air discharges	
Radiated RF immunity	IEC 61000-4-3: 10V/m with 1 kHz sine-wave 80% AM from 80...6000 MHz	
EFT/B immunity	IEC 61000-4-4: ±4 kV @ 5 kHz on power ports ±4 kV @ 5 kHz on communication ports	
Surge transient immunity	IEC 61000-4-5: ±1 kV line-line (DM) and ±2 kV line-earth (CM) on power ports ±2 kV line-earth (CM) on communication ports	
Conducted RF immunity	IEC 61000-4-6: 10V rms with 1 Hz sine-wave 80% AM from 150 kHz...80 MHz	

Certifications

Certification ⁽¹⁾ (when product is marked)	Value
c-UL-us	UL Listed Industrial Control Equipment, certified for US and Canada. See UL File E65594. UL Listed for Class I, Division 2 Group A,B,C,D Hazardous Locations, certified for U.S. and Canada. See UL File E194810.
UK and CE	UK Statutory Instrument 2016 No. 1091 and European Union 2014/30/EU EMC Directive, compliant with: EN 61326-1; Meas./Control/Lab., Industrial Requirements EN 61000-6-2; Industrial Immunity EN 61131-2; Programmable Controllers EN 61000-6-4; Industrial Emissions
	UK Statutory Instrument 2012 No. 3032 and European Union 2011/65/EU RoHS, compliant with: EN 63000; Technical documentation
RCM	Australian Radiocommunications Act, compliant with: EN 61000-6-4; Industrial Emissions
EtherNet/IP	ODVA conformance tested to EtherNet/IP specifications
Ex	UK Statutory Instrument 2016 No. 1107 and European Union 2014/34/EU ATEX Directive, compliant with: EN IEC 60079-0; General Requirements EN IEC 60079-7; Explosive Atmospheres, Protection "e" II 3 G Ex ec IIC T5 Gc (for 1794-AENTR) II 3 G Ex ec IIC T4 Gc (for 1794-AENTRXT) DEMKO 14 ATEX 1342501X UL22UKEX2378X
IECEx	IECEx System, compliant with: IEC 60079-0; General Requirements IEC 60079-7; Explosive Atmospheres, Protection "e" Ex ec IIC T5 Gc (for 1794-AENTR) Ex ec IIC T4 Gc (for 1794-AENTRXT) IECEx UL 14.0066X
TÜV	TÜV Certified for Functional Safety: Capable of SIL 2
KC	Korean Registration of Broadcasting and Communications Equipment, compliant with: Article 58-2 of Radio Waves Act, Clause 3
EAC	Russian Customs Union TR CU 020/2011 EMC Technical Regulation

Certifications (Continued)

Certification⁽¹⁾ (when product is marked)	Value
CCC	CNCA-C23-01 强制性产品认证实施规则 防爆电气 CNCA-C23-01 CCC Implementation Rule Explosion-Proof Electrical Products
Morocco	Arrêté ministériel n° 6404-15 du 29 ramadan 1436

(1) See the Product Certification link at [rok.auto/certifications](#) for Declarations of Conformity, Certificates, and other certification details.

Rockwell Automation Support

Use these resources to access support information.

Technical Support Center	Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates.	rok.auto/support
Local Technical Support Phone Numbers	Locate the telephone number for your country.	rok.auto/phonesupport
Technical Documentation Center	Quickly access and download technical specifications, installation instructions, and user manuals.	rok.auto/techdocs
Literature Library	Find installation instructions, manuals, brochures, and technical data publications.	rok.auto/literature
Product Compatibility and Download Center (PCDC)	Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.	rok.auto/pcdc

Documentation Feedback

Your comments help us serve your documentation needs better. If you have any suggestions on how to improve our content, complete the form at rok.auto/docfeedback.

Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

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