

## Technical Data

Original Instructions



**Allen-Bradley**

by ROCKWELL AUTOMATION

# OptixEdge

Catalog Numbers 2800E-ANA-S, 2800E-ANB-S

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This publication provides technical specifications, environmental specifications, certifications, and dimensions for the Allen-Bradley® OptixEdge systems.

Use this document with the Visualization Solutions Selection Guide, publication [VIEW-S6002](#), to make initial decisions about the operator panels for visualization products that are best suited for your system requirements.

## Terminology

OptixEdge products are configurable, with many possible valid catalog numbers. To aid in readability, we refer to devices by the first several characters only. For example, 2800E-ANA applies to all catalog numbers that begin with these characters (2800E-ANA, and so on).



## Notes:

## Catalog Number Explanation

Examples that are given in this section are not intended to be used for product selection. Not all combinations generate a valid catalog number. Use ProposalWorks™ software to configure the system. ProposalWorks software is available from [rok.auto/systemtools](http://rok.auto/systemtools).

2800E - A N A - S  
a b c d

| a          |                | b                |             | c                |                       | d        |             |
|------------|----------------|------------------|-------------|------------------|-----------------------|----------|-------------|
| Model Type |                | Wireless Options |             | Software Options |                       | Branding |             |
| Code       | Description    | Code             | Description | Code             | Description           | Code     | Description |
| A          | Standard (ARM) | A                | None        | A                | FT Optix XS (5 token) | S        | Standard AB |
|            |                |                  |             | B                | FT Optix S (8 token)  | B        | Brandless   |

## Specifications

Table 1 - Environmental Specifications

| Attribute  | Values                                      |   |
|--|---|---|
| Operating Temperature  | 0...+50 °C (32...122 °F)                    |   |
| Storage Temperature  | -20...+60 °C (-4...+140 °F)                 |   |
| Operation/Storage relative humidity  | 20%...90% RH @ 25 °C (77 °F) non-condensing |   |
| Max. Altitude, operating   | 2000 m (6562 ft)                            |   |
| Vibration (EN 60068-2-6:2008-02<br>Environmental testing - Part 2-6: Tests -<br>Test Fc: Vibration (sinusoidal))   | Frequency range                             | 10,00 Hz to 500,00 Hz                   |
|  | Sweep rate                                  | 1 octave / min                          |
|  | Number of sweep cycles                      | 5 / axis (56'27")                       |
|  | Displacement                                | 0,3048 mm p-p (10,00 Hz to 57 Hz)       |
|  | Acceleration                                | 0-p: 2,0 g (57 Hz to 500,00 Hz)         |
| Shock (EN 60068-2-27:2009-05,<br>Environmental testing - Part 2-27: Tests -<br>Test Ea and guidance: Shock) Shape of<br>rated mechanical stress: Half-Sine | operating                                   | 15 g (acceleration) at 11 ms (duration) |
|  | non operating                               | 30 g (acceleration) at 11 ms (duration) |

Table 2 - Standards Compliance and Certifications

| Certification | Value   |
|---------------|---|
| REACH         | Regulation 1907/2006/CE, reference for restricted substances table present in annex XVII of REACH regulation  |
| RoHS          | China RoHS, Turkey RoHS, European RoHS, UKCA RoHS   |
| WEEE          | European Directive 2012/19/EU - Waste Electrical and Electronic Equipment   |
| CE (EMC)      | European Union 2014/30/EU EMC Directive, compliant with:<br>EN 61326-1; Electrical equipment for measurement, control and laboratory use.   |
| cULus         | cULus Listed Industrial Control Equipment for use in Ordinary Location<br>per standards ANSI/UL 61010-1 and ANSI/UL 61010-2-201 for USA and CSA C22.2 NO. 61010-1, CSA C22.2 No. 61010-2-201 for Canada.  |
| KC            | Registered under the Clause 3, Article 58-2 of Radio Waves Act.<br>R-R-RAA-JB1 .  |
| UKCA          | 2016 No. 1091 Electromagnetic Compatibility Regulations (EMC).<br>2012 No. 3032 Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations (RoHS).<br>EN 61326-1 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements. |
| RCM           | Australian Radio Communications Act, compliant with:<br>EN 61326-1 Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements.  |
| Morocco       | Arrêté ministériel n° 6404-15<br>NM EN 61326-1  |
| ODVA          | ODVA conformance  |

Table 3 - Technical Data

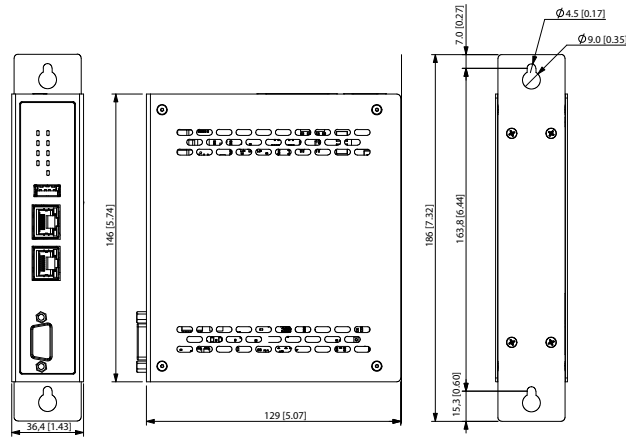
| OptixEdge Standard         |              |   |
|----------------------------|--------------|---|
| HMI software               |              | FactoryTalk Optix XS size (5 tokens)      FactoryTalk Optix S size (8 tokens) |
| Remote assistance software |              | FactoryTalk Remote Access PRO (UBIQUITY® compatible)                          |
| Other SW                   | 3rd party    | Docker container support  |
|                            |              | NAT, NAT1:1, Routing, Internet Sharing *                                      |
| O.S. installed             |              | Linux Yocto   |
| Protection grade IP        | IP rating    | IP 20   |
|                            | NEMA rating  | UL TYPE 1(indoor only)  |
| Case                       | Installation | DIN rail or Book mounting   |
|                            | Material     | Aluminium   |
| Processor                  |              | i.MX 8M Plus  |
| System memory RAM          |              | 4GB   |
| Mass storage               |              | ~12GB available for customer's application (eMMC in pSLC mode)                |
| Storage expansion          |              | 1x MicroSD slot on board with external access (push-push)                     |
| Interfaces                 | LAN          | 2x Gigabit Ethernet (RJ45)  |
|                            | USB          | 1x USB 3.0 (Type-A / host)  |
|                            | Serial       | 1x RS232/422/485 (DB9M) isolated  |
| Digital Inputs             | IN 0         | enable FTRA Network connection  |
|                            | IN 1         | restart Device  |
|                            | Type         | 18...32V - optoisolated (500V)  |
| Digital Outputs            | OUT 0        | feedback on FTRA Network connection   |
|                            | OUT 1        | feedback on active FTRA remote connection                                     |
|                            | Type         | Solid state relay - optoisolated (500V) max 200mA - 24V DC - N.O.             |
| Power supply input         | DC input     | 24VDC (18...32V DC) SELV isolated   |
| Current Consumption        |              | 0.5A max at 24VDC   |
| RTC Backup                 |              | Supercapacitor  |

\* future option.

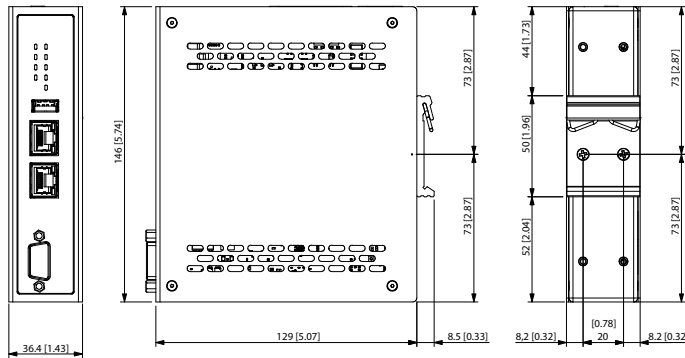
# Approximate Dimensions

Dimensions are in mm (inches). Dimensions are not intended to be used for manufacturing purposes.

2800E dimensions (Book installation)



2800E dimensions (DIN Rail installation)



## Additional Resources

These documents contain additional information concerning related products from Rockwell Automation.

| Resource   | Description   |
|--|---|
| OptixEdge User Manual, <a href="#">2800E-UM001</a>   | Provides details on how to install, configure, operate, and troubleshoot OptixEdge.   |
| OptixEdge Installation Instructions, publication <a href="#">2800E-IN001</a>   | Provides basic installation guidelines and instructions for OptixEdge.  |
| EtherNet/IP Network Devices User Manual, <a href="#">ENET-UM006</a>  | Describes how to configure and use EtherNet/IP devices to communicate on the EtherNet/IP network.   |
| Ethernet Reference Manual, <a href="#">ENET-RM002</a>  | Describes basic Ethernet concepts, infrastructure components, and infrastructure features.  |
| System Security Design Guidelines Reference Manual, <a href="#">SECURE-RM001</a>   | Provides guidance on how to conduct security assessments, implement Rockwell Automation products in a secure system, harden the control system, manage user access, and dispose of equipment.   |
| Industrial Components Preventive Maintenance, Enclosures, and Contact Ratings Specifications, publication <a href="#">IC-TD002</a> | Provides a quick reference tool for Allen-Bradley industrial automation controls and assemblies.  |
| Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication <a href="#">SGI-1.1</a>   | Designed to harmonize with NEMA Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components. |
| Industrial Automation Wiring and Grounding Guidelines, publication <a href="#">1770-4.1</a>  | Provides general guidelines for installing a Rockwell Automation industrial system.   |
| Product Certifications website, <a href="http://rok.auto/certifications">rok.auto/certifications</a> .                             | Provides declarations of conformity, certificates, and other certification details.   |

# Rockwell Automation Support

Use these resources to access support information.

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

## Documentation Feedback

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Rockwell Automation maintains current product environmental compliance information on its website at [rok.auto/pec](http://rok.auto/pec).

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