

Optix portfolio

New, open, scalable visualisation platform with options



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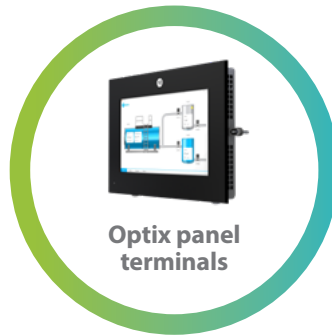
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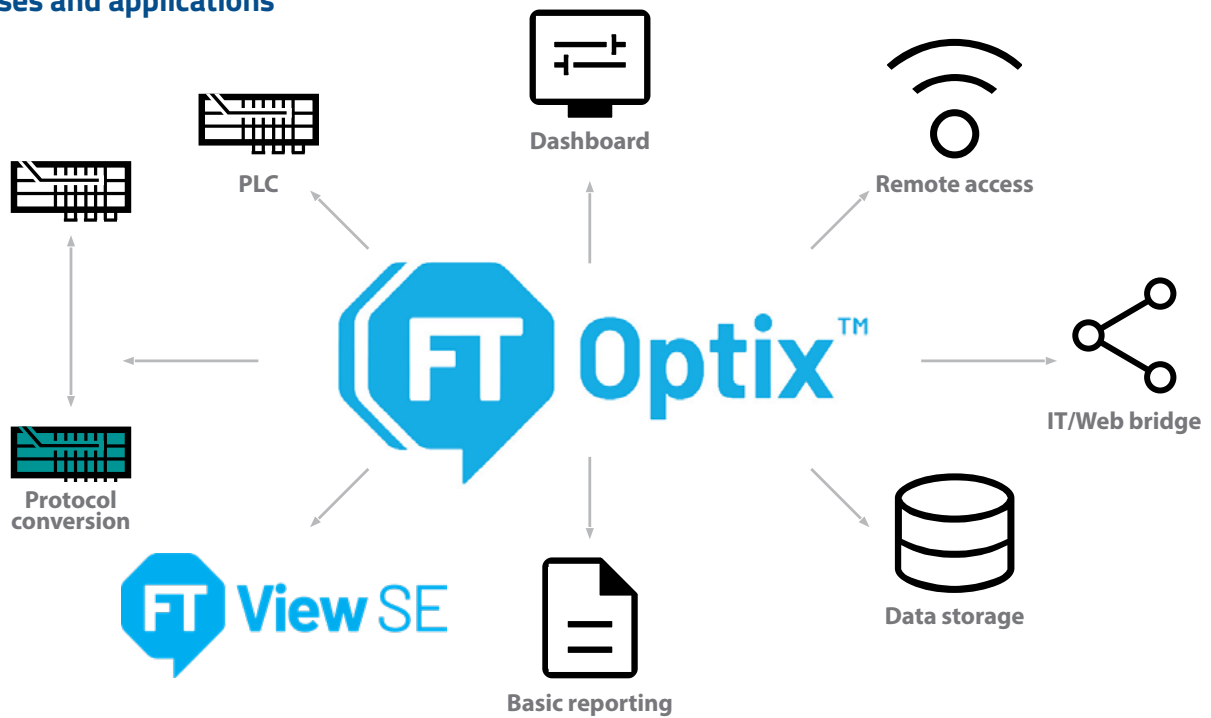
Optix portfolio

Optix™ is a Rockwell Automation portfolio that accelerates value delivery with modern technologies, innovative designs and modular deployment options.

Portfolio includes



Use cases and applications



Native supported protocols



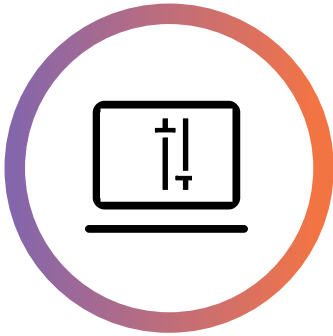
Other protocols



FactoryTalk® Optix™ core features

FactoryTalk Optix enables users to design, test and deploy applications directly from a web browser or local desktop to achieve new levels of collaboration, scalability and interoperability in optimising automation and IoT systems, without paying for things you don't need.

HMI options



Design and test your HMI projects in ways that you have only imagined

Alternative comms



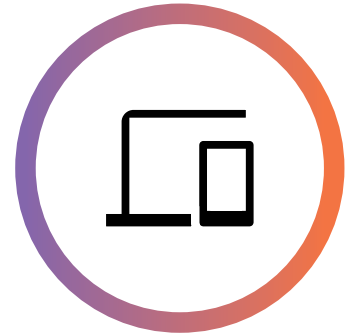
Communicate with the right devices for the right information

Remote maintenance



Remote connectivity available via FT remote access runtime

Deployment options



Create your application once and deploy to any device

Design options

- Design and test your HMI projects locally or via FactoryTalk hub in the cloud
- Collaborative workflows allow modifications from anywhere, anytime
- Version management tracks changes keeps track of who did what and when
- Build a project dynamically by scripting, or even at runtime

Deployment options

- Flexible host hardware
- Panel, station, distributed
- Pay only for what you use



Graphic options

- Responsive graphics
- Reporting, dashboarding
- Style sheets
- Multi-language

Extensible options

- Library management
- 3rd party drivers
- IOT native connectivity
- Full support of OPC/UA companion specs
- Open interface with C# scripting



OptixPanel™ - faster and trusted

Why use OptixPanel™ graphic terminals instead of a PC?



- Ready to run
- All-in-one hardware + software solution
- More cost-effective
- Locked-down system

Includes



Use case examples

Small HMI

HMI with three web clients

HMI, 10 clients + OPC UA



Optix panel compact (2800C)

- Small formats starting from 4.3" LCD
- Single-touch resistive or multitouch PCAP screens
- More cost-effective
- **Includes**
 - FactoryTalk® Optix™ Runtime Small
 - FactoryTalk® Remote Access™ Runtime Basic License
- Optional License Upgrade
- FactoryTalk® Optix™ Runtime (License size: S/M)



Optix panel standard (2800S)

- High-end performance
- Four types of bezels available - three with resistive touch, one with PCAP touch screen
- Stainless-steel IP69K hygienic bezel available
- Ten LCD sizes
- Four sizes in 4:3 aspect ratio
- Six sizes in widescreen
- ATEX certified configurations available
- FactoryTalk® Optix™ Runtime (Medium-XL)
- **Includes**
 - FactoryTalk® Optix™ Runtime Medium
 - FactoryTalk® Remote Access™ Runtime Pro
- **Optional License Upgrade**
 - FactoryTalk® Optix™ Runtime (License size: M/L)

*Brandless units available for all product versions

FT Remote Access™

FactoryTalk® Remote Access™ enables secure connectivity to remote devices and applications as an alternative to in-person, local support.

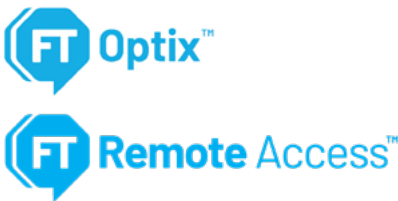
| Embedded remote software | Basic | Pro |
|--|-------|-----|
| Interactive services (remote desktop, file transfer, task manager, chat) | Yes | Yes |
| Assistance requests | Yes | Yes |
| VPN to local client | Yes | Yes |
| VPN with access to remote subnet | No | Yes |
| Internet connection sharing (ICS) with devices On-Machine™ network | No | Yes |

Embedded hardware solution optimised for FactoryTalk® Optix™



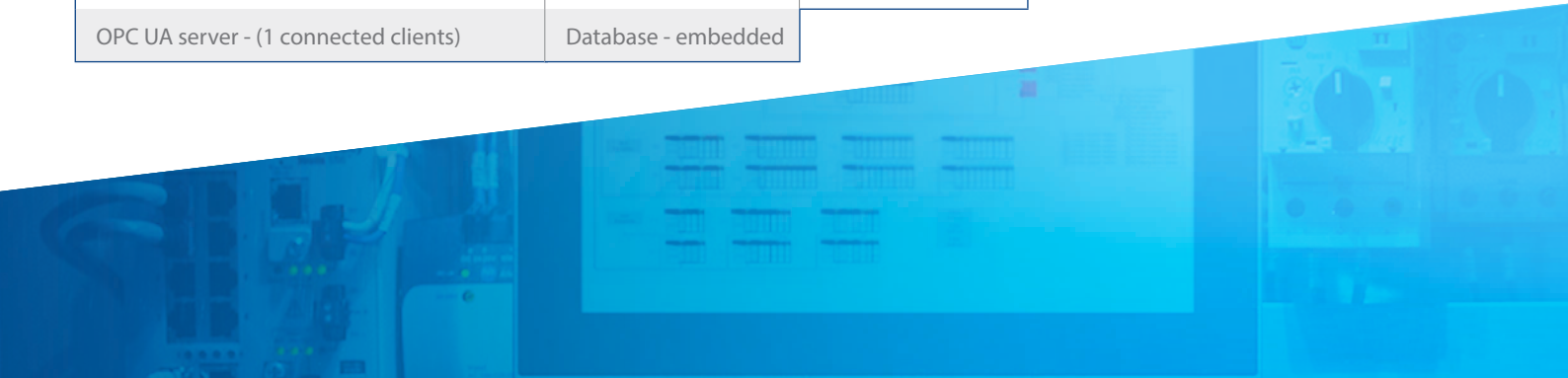
- Design and test your HMI projects in ways that you have only imagined
- Communicate with the right devices for the right information
- Remote connectivity available via FT Remote Access Runtime
- **Includes**
 - FactoryTalk® Optix™ Runtime Xtra-Small
 - FactoryTalk® Remote Access™ Runtime Pro
- **Optional License Upgrade**
 - FactoryTalk® Optix™ Runtime (Small-XL)
- **Specifications**
 - ARM NXP iMX8M Plus
 - 32Gb User Memory
 - Linux Yocto 64-bit OS

Add all the FT Optix and FT Remote Access Capabilities to your ControlLogix Controller.



Use case examples

| | | |
|---|---------------------|---------------------|
| Rockwell Automation controller (Quantity:1) | Data logging | Protocol conversion |
| OPC UA server - (1 connected clients) | Database - embedded | |



Selection guide



| NHP item number | Rockwell Automation catalogue number | Description | Material | Size | Resolution | Touch type | IP |
|-----------------|--------------------------------------|------------------------------|-----------------|------|------------|-------------------|-------|
| 2800C043AS1S | 2800C-043AS-1S | Optix Panel Compact 4in | Aluminium | 4" | 480x272 | Single Touch (R) | IP65 |
| 2800C070AS1S | 2800C-070AS-1S | Optix Panel Compact 7in | Aluminium | 7" | 800x480 | Single Touch (R) | IP65 |
| 2800S101DSN1S | 2800S-101DS-N1S | Optix Panel Standard 10in | Aluminium | 10" | 1280x800 | Single Touch (R) | IP65 |
| 2800S121DSN1S | 2800S-121DS-N1S | Optix Panel Standard 12in | Aluminium | 12" | 1280x800 | Single Touch (R) | IP65 |
| 2800S156FMN1S | 2800S-156FM-N1S | Optix Panel Standard 15in | Alum. and glass | 15" | 480x272 | Multi-Touch (CAP) | IP65 |
| 2800S121XSN1S | 2800S-121XS-N1S | Optix Panel Standard 12in SS | Stainless steel | 17" | 1280x800 | Single Touch (R) | IP69K |

Preferred stock - [OptixPanel Graphic Terminals Landing Page](#)



| NHP item number | Description |
|-------------------------------|--|
| 9702MOPXRTXST2x (x= support) | FactoryTalk Optix Runtime Lite Xs 5 Tokens |
| 9702MOPXRTSMT3x (x= support) | FactoryTalk Optix Runtime Lite S 8 Tokens |
| 9702MOPXRTMDT4x (x= support) | FactoryTalk Optix Runtime Standard M 11 Tokens |
| 9702MOPXRTLGT5x (x= support) | FactoryTalk Optix Runtime Standard L 15 Tokens |
| 9702MOPXRTXLT6x (x= support) | FactoryTalk Optix Runtime Pro XI 21 Tokens |
| 9702MOPXRTUNLT7x (x= support) | FactoryTalk Optix Runtime Pro Unlimited Tokens |

[FT Optix Landing Page](#)
 x= 0 (self support)
 1 (8/5 support)
 2 (24/7 support)

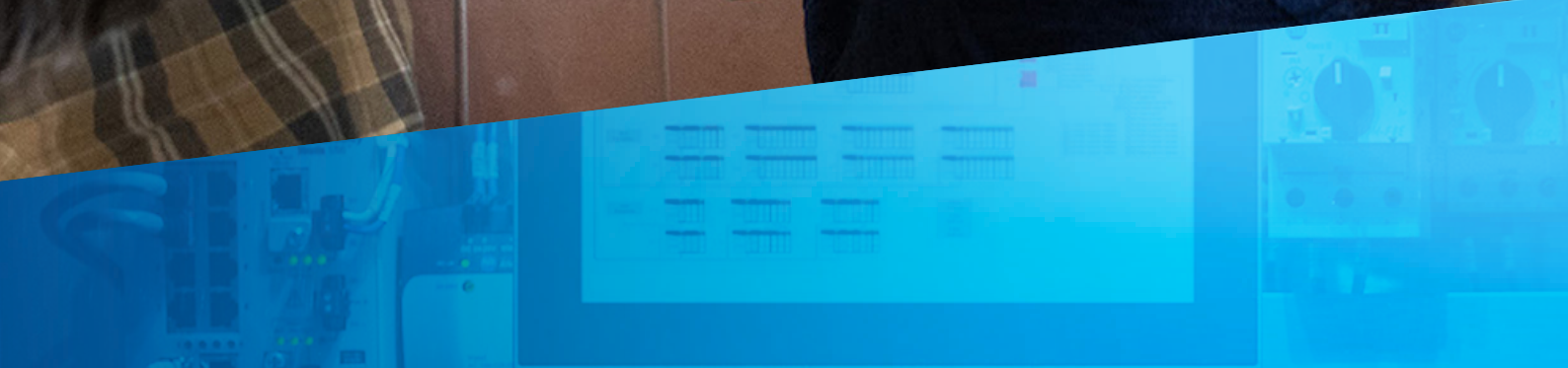


| NHP item number | Rockwell Automation catalogue number | Description |
|-----------------|--------------------------------------|---|
| 1756CMEE1Y1 | 1756-CMEE1Y1 | 1756 slot based Embedded Edge Compute module consisting of ARM based NXP iMX8m Plus CPU, 4GB RAM, 20GB eMMC, 32GB of uSD storage capability and Linux Embedded OS |



Optix web page

EAST PUMP
DRIVE
M-26301



Licences and tokens

Each FT Optix™ Runtime licence corresponds to a ‘token container’ within which the designer can select and activate the functions necessary for application development. Each function has a token value associated with it and some functions can be used for free.

The selection of components and functions to be activated and used in the project is done at the time of programming with FT Optix™ Studio. FT Optix™ Runtime verifies that the total amount of tokens associated with all features activated is within the token limit of the purchased licence.

| Licences and tokens | | | |
|---------------------|------|---------------------|----------------------|
| Licence size | IPCs | Optix Panel Compact | Optix Panel Standard |
| XS | 5 | | |
| S | 8 | 8 (Included) | |
| M | 11 | 11 (Optional) | 11 (Included) |
| L | 15 | | 15 (Optional) |
| XL | 21 | | |
| Unlimited | N/A | | |

Choose tokens related to your application

Other protocols

| Communication Protocols | Serial | Ethernet | Token Value OptixPanel or ASEM 6300 | Token Value on Third Party Systems |
|-----------------------------------|--------|----------|--|--|
| RockwellAutomation EtherNet/IP | | √ | 1 station = 1 multiple stations = 2 | 1 station = 1 multiple stations = 2 |
| Beckhoff TwinCAT (*) | | √ | | |
| CODESYS | | √ | | |
| Mitsubishi MELSEC FX3U | | √ | | |
| Mitsubishi MELSEC Q/FX5U | | √ | | |
| Modbus Master | √ | √ | | |
| Omron EtherNet/IP | | √ | | |
| Omron FINS Eth | √ | √ | | |
| Siemens S7 TCP | | √ | | |
| Siemens S7 TIA PROFINET (*) | | √ | | |
| Customisable serial communication | √ | | | |

Functional components

| Functionality | Description | Token Value |
|--------------------------------|---|--|
| Graphic functionality | | |
| Native graphical interface | Allows the project to be visualised using the native graphical interface of the device on which the application is running (Native HMI Client) | 1 |
| Web graphical interface | Allows you to view the project using an HTML 5 browser (Web HMI Client). The value in tokens depends on the number of concurrent client sessions you want to allow | 1 client = 1 token up to 3 clients = 2 tokens up to 5 clients = 3 tokens up to 10 clients = 5 tokens up to 20 clients = 7 tokens Unlimited = lic. Unlimited |
| Library | It allows developing the graphical part of the project using basic objects, graphical symbols in svg format, widgets and ready-to-use scripts | Free |
| Multimedia content | Allows you to manage and display multimedia content: file PDFs, web pages, videos, file browsing | Free |
| Basic functionality | | |
| Alarms | Allows management of active alarms and the ability to schedule their notification | 1 |
| Data Logger | Allows sampling and historisation of the value of variables on databases. This function requires at least an Embedded or ODBC type database | 1 |
| Event logger and alarm history | Allows the historicisation of events such as Tag value change, User change, and alarms on database. This function requires at least one database of type Embedded or ODBC | 1 |
| Recipes | Allows the management of a set of values associated with process variables and stored on databases. This function requires at least one database of type Embedded or ODBC | 1 |
| Retentiveness | Allows saving changes made at Runtime to the project (value of Tags, Users, Language) while maintaining the possibility of restoring to the original value | 1 |
| Report | Allows the creation of reports with customisable layouts containing text, tables, and static graphs | 1 |
| Signature on Audit | Allows a digital firm to be applied to exported data in accordance with 21 CFR Part 11 | 1 |
| User authentication via AD | Also allows authentication of users registered in the Domain of which the system on which the project is running is part. Not available on OptixPanel | 1 |
| Localisation | Allows management of regional settings (date format, decimal separator...), translations of texts in the project, and management of units of measurement | Free |
| Users | Allows management of users/groups in the project and definition of levels or access areas | Free |
| Converters | They allow you to apply conversions to the values to be represented, example: key-to-value converter, linear converter, mathematical expressions, string formatter, etc. | Free |
| Scripting | Allows you to develop scripts in C# to extend functionality with custom methods to run at Runtime and also at design time to automate project development | Free |
| Database | | |
| Database embedded | Allows data historisation and interaction on local SQLite database | 1 |
| Database ODBC | Allows data historisation and interaction on remote databases of type Microsoft SQL Server and MySQL. The value in tokens depends on the number of databases configured | one database = 1 up to 3 databases = 2 up to 5 databases = 3 Unlimited = lic. Unlimited |
| OPC UA | | |
| OPC UA Client | Allows import and access to any resource exposed by an OPC UA Server, according to the Data Access, Alarm & Conditions, Historical Data Access specifications | connection to one server = 1 connection to multiple servers = 2 |
| OPC UA Server | Allows all project resources (such as graph, variables, alarms, events, methods, historical data) to be exposed via OPC UA Server, according to the Data Access, Alarm & Conditions, Historical Data Access specifications. The value in tokens depends on the number of concurrent client sessions you want to allow | one client = 1 up to 3 clients = 2 up to 5 clients = 3 up to 10 clients = 5 up to 20 clients = 7 clients Unlimited = lic. Unlimited |



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