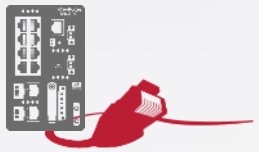
Integrated Architecture® Overview Customer Presentation

Integrated Architecture Portfolio

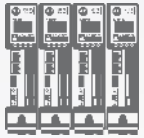
1 
Control & I/O

2 
Networks & Security

3 

Operator Interfaces

4 
Software

5 
Motion Control

6 
Sensing, Safety
& Connectivity

Integrated Architecture

A HIGH PERFORMANCE ARCHITECTURE

Smart.

Automation system with intelligence that *just works.*

Productive.

Simple integrated development resulting in improved real-time operations and expedited maintenance.

Secure.

End-to-end security.

Micro Control Systems – Value Proposition

One common design environment for the entire system

Ease of use **Lower cost** **Information-enabled**

Level 3 Cloud

MQTT Clients

MQTT

Data to Cloud

Level 2 Supervisory control

Mobility device

VNC Client for HMI

Operator interface (PanelView™ 800 graphic terminal)

Isolation zone

DesignStation (Connected Components Workbench™ software)

Level 1 Machine control

MQTT UDFBs

Standard control (Micro800™ controllers)

SWS

Safety control (Guardmaster® 440C-CR30 software configurable safety relay)

Panel components

Level 0 Intelligent devices

Motion control (Kinetix® 5100 + TLP motor)

Variable-frequency drives (PowerFlex® 523)

Soft starters (STC™/SMC™-3)

Motor protection (IEC/NEMA contactors)

Sensing (Smart sensors)

Safety sensors and relays

Industry Portfolio Positioning - Control

Portfolio Today

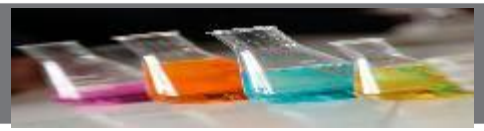
Industries Served

Discrete | Hybrid | Process

Micro800 / MicroLogix

CompactLogix

ControlLogix



Chemical / Pharma

Micro controllers

Micro control platform

Micro800™ controllers

- Wide range of micro-size controllers (built-in I/O from 10-48pts) capable of motion control
- Plug-in modules personalize the Micro800™ controller so you can get just what you need for both I/O and communication functionality
- Expansion I/O modules for higher I/O performance
- One software to program your controllers and configure your devices
- Device connection through EtherNet/IP, Serial and USB ports as well as via Modbus TCP, Modbus RTU, and ASCII, and Open Socket

MicroLogix™ controllers

- Embedded Modbus RTU Master and Slave protocols
- Full ASCII (read/write) capability
- Expand application capabilities with several I/O configurations, available in seven different models
- A built-in EtherNet/IP port for peer-to-peer messaging, web server and email capability

Easy to install & maintain

EtherNet/IP Communication option

Lower-cost, standalone machine control

Rockwell Automation

CompactLogix™ controllers

Standard machines

CompactLogix™ 5480 controller

- Enables high-speed I/O, and Integrated Motion on EtherNet/IP up to 150 axis
- Includes three GbE EtherNet/IP ports supporting both Linear or Device Level Ring topologies up to 250 nodes
- Provides a Logix based real-time controller that runs in parallel to an instance of Windows 10 IoT Enterprise
- Enhanced security features

CompactLogix™ 5380 controller

- Integrated Motion on EtherNet/IP up to 32 axis
- Integrated Safety up to SIL 2, PLd versions
- Two Ethernet ports for dual IP or support for Linear and Device Level Ring topologies for up to 80 nodes
- Enables high-speed I/O, motion control
- Enhanced security features

CompactLogix™ 5370 controller

- Integrated Motion on EtherNet/IP up to 16 axis
- Linear and Device Level Ring topologies for up to 48 nodes
- Integrated Safety up to SIL 3, PLe CAT 4 versions
- On-Machine™ version

Multiple disciplines

Flexible and scalable

One common design environment

ControlLogix® controllers

Complex machines & process

ControlLogix® 5570 controller

- Integrated Motion on EtherNet/IP up to 100 axis
- Integrated Safety up to SIL 3, PLe CAT 4 versions
- On-Machine™ versions
- Conformal coat and extreme environment versions
- Redundancy and removal insertion under power

ControlLogix® 5580 controller

- Integrated Motion on EtherNet/IP up to 256 axis
- Integrated Safety up to SIL 3, PLe CAT 4 versions
- 1 gigabit (Gb) embedded Ethernet port enables high-speed I/O and motion control for up to 300 nodes
- Conformal coat versions
- Removal insertion under power
- Enhanced security features

Multiple disciplines

Flexible and scalable

One common design environment

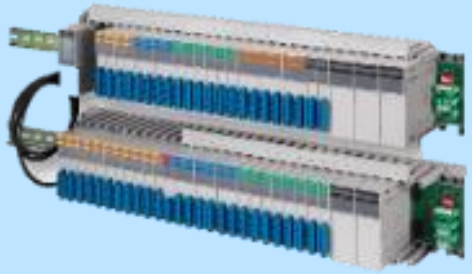
Distributed I/O Portfolio

Intrinsic Safety | Safety

Product lines and positioning

Process

1719 Ex I/O



1715 Redundant I/O

1718 Ex I/O

Requires certified enclosure

Hybrid

FLEX 5000™ I/O

1794 FLEX™ I/O

Discrete

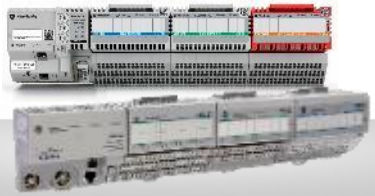
1734 POINT I/O™

1738 ArmorPOINT® I/O

1732D, 1732E ArmorBlock® I/O
1732 ArmorBlock® Guard I/O™

1790D CompactBlock™ LDX I/O
1791DS CompactBlock™ Guard I/O™
1791ES CompactBlock™ Guard I/O™

1799 Embedded I/O




I/O portfolio

Chassis-based I/O

ControlLogix®

- I/O diagnostics for detection of both system and field-side failures
- Electronic keying to help prevent replacement errors
- Wide range of modules from high performance to process control

Process distributed I/O

FLEX 5000™, FLEX™

- High-performance FLEX 5000™ I/O for CompactLogix™ 5380 and ControlLogix® 5580 controllers
- High-channel density on a distributed platform

Intrinsic safety and high availability I/O

1719 Ex, 1715 Redundant

- 1719 Ex I/O for hazardous area locations
- 1715 Redundant I/O provides high availability for ControlLogix® controllers

Condition monitoring

Dynamix™

- Integrates machine protection with your standard control system
- Dual Ethernet ports supporting both Linear and Device Level Ring topologies

Discrete machine I/O

Compact 5000™, Compact I/O™

- High-performance Compact 5000™ I/O for CompactLogix™ 5380 and ControlLogix® 5580 controllers
- High-density Compact I/O for CompactLogix™ 5370 controller

Smart machine distributed I/O

POINT I/O™

- Low-cost platform with lower density inputs and outputs
- Compact design makes installation easier
- Machine safety, specialty and IO-Link options available

On-Machine™ I/O

ArmorBlock®

- IP67, IP67, IP69K rated modules
- Reduces wiring and panel space
- QuickConnect for tool changing application
- Analog, Digital, specialty, machine safety and IO-Link options available

ControlLogix® I/O

High performance

- Peer-to-peer I/O control independent of the controller with fast and flexible field-side hardware and event task triggering capabilities

Multi-discipline capabilities

- Specialty I/O features include configurable flowmeter modules, high-speed counter encoder and programmable limit switch capabilities
- Digital I/O provides 8...32 points per module and isolated and non-isolated module types
- Isolated analog I/O provide increased accuracy, repeatability, stability and precision with a channel density of eight point
- Analog I/O are available with onboard data alarming, HART, SIL 2 safety, thermocouple and RTF, 19-bit resolution
- Sequence of Events modules provides inherent time-stamping capabilities

Advanced networking capabilities

- Dual Ethernet modules for Linear and Device Level Ring topologies
- Offers security modules to encrypt important information shared between controllers and servers to help prevent tampering

FLEX™ I/O

Modular design

- Modular design allows you to select the I/O independently, termination style and network interface
- Extreme environment modules and conformal coating options support operating temperatures from -20…+70 °C (-4…+158 °F)
- Removal and Insertion Under Power (RIUP) lets you replace modules and make cable connections while the system is in operation
- Supports horizontal and vertical mounting

Networking capabilities

- EtherNet/IP, ControlNet, DeviceNet
- Dual Ethernet ports for Linear and Device Level Ring topologies

Multi-discipline capabilities

- Analog I/O modules for thermocouple, RTD, and HART
- Digital I/O modules support isolated inputs or outputs, protected outputs, electronic fusing, or diagnostics available on some modules
- Specialty I/O for frequency, high speed counter and pulse counter modules

FLEX 5000™ I/O

Flexible design and maintenance

- Modular design supports Removal and Insertion Under Power (RIUP) and on-line addition of modules
- Consistent I/O wiring allows direct termination of 2-, 3-, and 4-wire devices in addition to consistent power wiring across terminal bases with jumpers
- Mount up to 16 I/O modules in either a horizontal or vertical mounting without de-rating, interconnect cable available for bank expansion
- Standard operating temperatures from -40…+70 °C (-40...+158 °F), XT variant available for all catalogs for conformal coating and G3 compliance

Flexible network media and topologies

- 1-Gb embedded switch technology for Device Level Ring, Linear, Star, and Parallel Redundant Protocol (PRP) topologies
- Dual Ethernet ports available as 2 Copper or 2 Fiber SFP ports, compatible with any Stratix® SFP

Integrated control and safety

- Channel-level control and configuration with enhanced diagnostics
- Simplified safety implementation with ability to mix safety and standard I/O
- Safety Integrity Level at SIL 3, PLe, Cat. 4 single channel
- Supports high, low and continuous demand in fail-safe applications
- Faster safety reaction time

1719 Ex I/O

Robust design

- Intrinsically safe distributed I/O platform
- Can be mounted in Zone 2 or Class I, Div. 2
- Connects with field devices in Zones 0, 1 or Class I, Div. 1
- Compact, chassis-based I/O design with power supply module contained in the chassis
- Modular chassis options (8, 22 and 24-slot) allow scalability for larger applications
- Add-on profile support in Studio 5000® v24 and above for easy configuration

Networking capabilities

- EtherNet/IP, dual Ethernet ports for linear or Device Level Ring topologies

Multi-discipline capabilities

- Configurable analog input/output module offers flexibility with HART support as standard for all analog modules
- Eight channel digital NAMUR input module
- Two digital output modules provide support for nearly any solenoid requirement
- Includes power supply redundancy

Dynamix™ 1444 Integrated Condition Monitoring

System flexibility

- 4-channels each configurable for any type of vibration or position sensor
- Measures and communicates as tags in real time; alarm and module status, overall vibration and vibration at configurable frequencies indicative of faults
- Configurations implemented in Studio 5000® Logix Designer® application and managed by a Logix controller, just like any other I/O
- Rugged distributed architecture allows installation as near to the machine as possible, even on the skid
  - Conformal coated circuit cards, temperature rating to +70 °C (+158 °F), dual redundant power inputs, certified to Marine standards for shock and vibration, and can be installed in hazardous areas
  - Expansion modules add functionality when needed offering additional relays, 4-20mA outputs and Tachometer Signal Conditioning

Networking capabilities

- Dual Ethernet ports for both Linear and Device Level Ring topologies

Multi-discipline capabilities

- Configurable to serve any kind of condition monitoring application including Machinery Protection, Production Assurance (uptime), Quality or Predictive Maintenance

Compact I/O™

Flexible design

- Can be used as local and distributed I/O for CompactLogix™ 5370 controllers
- A built-in removable terminal block provides connections to I/O sensors and actuators
- Provides flexibility with DIN rail or panel mounting options
- Includes individual point diagnostic status indicators to ease troubleshooting

Networking capabilities

- Dual Ethernet ports for Linear and Device Level Ring topologies

Multi-discipline capabilities

- Digital I/O provides 8...32 points per module and including high-speed input module
- Analog I/O modules include thermocouple and RTD modules
- Specialty I/O supports ASCII, Boolean control and high-speed counters

Compact 5000™ I/O

High performance

- 200 µs update rate for high-performance I/O as local I/O to CompactLogix™ 5380 controllers and distributed I/O over EtherNet/IP to the CompactLogix™ 5380 and ControlLogix® 5580 controllers
- Supports up to 31 Compact 5000™ I/O modules

Networking capabilities

- 1-Gb embedded switch technology for Device Level Ring, Linear and star topologies

Multi-discipline capabilities

- Specialty I/O features high-speed counter and serial modules for ASCII/Modbus and DF1/ DH-485
- Digital I/O provides 8...16 points per module and isolated and non-isolated module types
- Universal analog output, analog input available with thermocouple
- Isolated and non-isolated relay output

POINT I/O™

Modular design

- Modular design enables independent selection of the I/O, termination style, and network interface
- Removable wiring system saves time and money during installation and troubleshooting
- Support for PLe and SIL 3 safety ratings with POINT Guard I/O™
- Removal and Insertion Under Power (RIUP) lets you replace modules and make cable connections while the system is in operation
- Supports horizontal and vertical mounting

Networking capabilities

- EtherNet/IP, ControlNet, DeviceNet
- Dual Ethernet ports for both Linear and Device Level Ring topologies
- IO-Link master module supports up to four IO-Link devices with integration into Logix

Multi-discipline capabilities

- Digital modules supporting a wide variety of voltages and diagnostics
- Analog modules with onboard scaling and selectable input filters
- Specialty modules to support serial interfaces such as serial synchronous interface (SSI), RS-232, RS-485/RS-422
- Choice of direct-connect or rack-optimized communications

FLEXHA 5000™ I/O platform

Process I/O Solutions:

Need Greater Availability

- For Process applications that need to fail tolerant
- For Process Safety applications that need to fail safe

Universal I/O Module

- A single card that can deliver AI/AO (with HART) and DI/DO by channel with online or offline software configuration
- Ease of wiring
- Configured for Simplex or Duplex
- Reduces Inventory for spare parts
- Reduces the number of spares needed in a project.

FLEX 5000 Portfolio

FLEX 5000™ I/O

- Single I/O platform with standard and safety I/O (fail-safe) for process applications
- Reduces engineering through tight integration with PlantPAx® 5.0
- Designed for Hybrid & Process Industry

FLEXHA 5000™ I/O

- Fault-tolerant I/O platform development for critical process applications
- Reduces engineering through tight integration with PlantPAx® 5.0
- Designed for Process Industry

Industries

- Oil & Gas
- Power Generation
- Metals
- Mining
- Chemical
- Life Sciences
- Machine Safety & Process Safety

Rockwell Automation

Network & security portfolio

Managed switches

Stratix® switches

- Access switches & distribution switches
- High-Performance switching up to 10 GB
- Integrated Network Address Translation
- Integrated DLR with three ring support
- IT and OT configuration and support tools

Unmanaged/ lightly managed

Stratix® switches

- Low-cost, compact solutions
- Automatically negotiates speed and duplex settings
- No configuration required, or can be configured to support security, resiliency and bandwidth optimization

Wireless technology

Stratix® switches

- Connect hard-to-reach and remote areas
- Mobile access to equipment and key business systems
- Minimizes hardware and wiring

Security appliances

Stratix® switches

- Secure real-time control communication
- Intrusion prevention using deep packet inspection capabilities
- Routing and firewall capabilities
- Access control lists

Communication modules

1756 modules

- Communication links between devices and ControlLogix® controller
- Can use Ethernet/IP, ControlNet, and DeviceNet network protocols
- Supports real-time I/O & exchange messaging

Embedded switch &

Linking devices

- Connects control networks to device level networks
- Leverages existing network structures for migrations

Network switch product overview

Stratix® 2000 switch

Stratix® 2500 switch

Stratix® 6000 switch

Stratix® 5700/ ArmorStratix™ 5700 switches

Stratix® 8000/8300 switches

Stratix® 5400 switch

Stratix® 5410 switch

UNMANAGED

LIGHTLY MANAGED

FULLY MANAGED

HIGH PERFORMANCE MANAGED

100M/1G ← - - - - - - - - - - - - - - - - - - → 100M ← - → 100M/1G ← - → 1G/10G

Why Stratix® switches?

Design

Reduced engineering & risk

- Validated reference architectures (CPwE)
- Custom AOPs & AOIs
- Offline network performance evaluation using the Integrated Architecture® Builder tool

Increase resiliency

- Device Level Ring
- Loop detection and prevention
- Security features to ensure uptime

Consistency in design

- Network Address Translation
- Full service local support capabilities

Operate

Optimization & ease of use

- OT-centric configuration via express setup

Reduced effort, cost & downtime

- Deploy/recover configuration via SD card capabilities
- DHCP per port for automatic end device IP address assignment

Improve MTTR

- DLR specific faceplate specific
- Pre-built switch-specific faceplates with port level diagnostic information to each ring allowing for troubleshooting

Maintain

Unit replacement & troubleshooting

- Auto device configuration & replace capabilities
- System level support

Increased reliability

- Stratix® switches undergo testing within an Integrated Architecture® system as part of every new product and firmware update release

Lower total cost of ownership

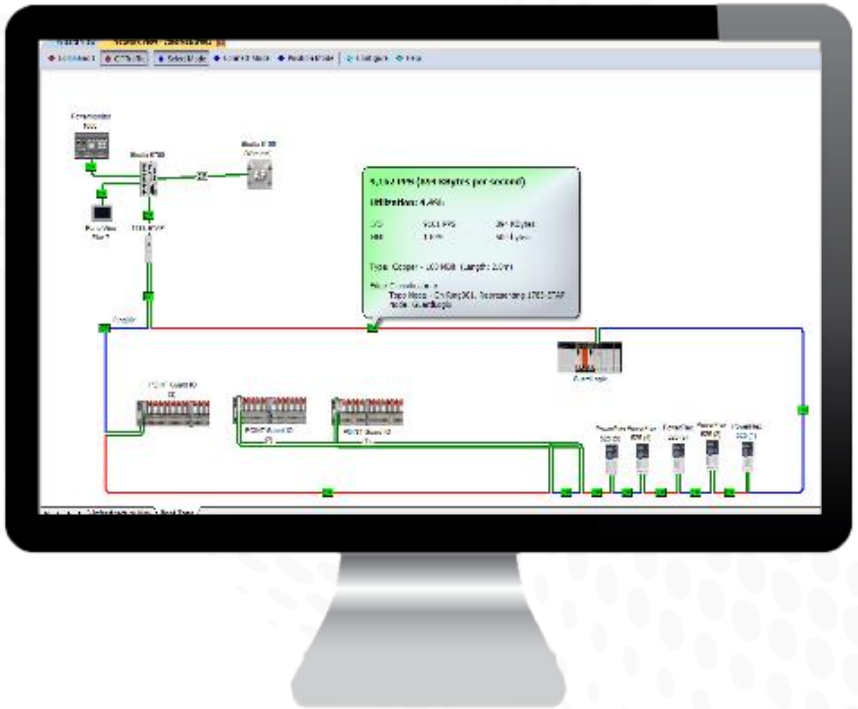
- Stratix® switches automatically included in existing TechConnect℠ agreements

The value of Stratix® switches: Design

Validated reference architectures

Detailed documentation and guidance to address common questions and concerns:

- Migrating legacy networks
- Network segmentation considerations
- DMZ implementation
- Implementing wireless



Custom AOPs/AOIs

Reduced coding effort, and provides for automatic and consistent context as it relates to tag naming and structure within your programs

Offline network performance evaluation

Lay out your network in a software environment to proactively identify potential issues before a single cable is run

The Value of Stratix® switches: Operate

OT optimized switch configuration

The configuration wizard for Stratix® switches automatically configures the switch to be optimized for automation applications – all the way to the per port level

Device Level Ring

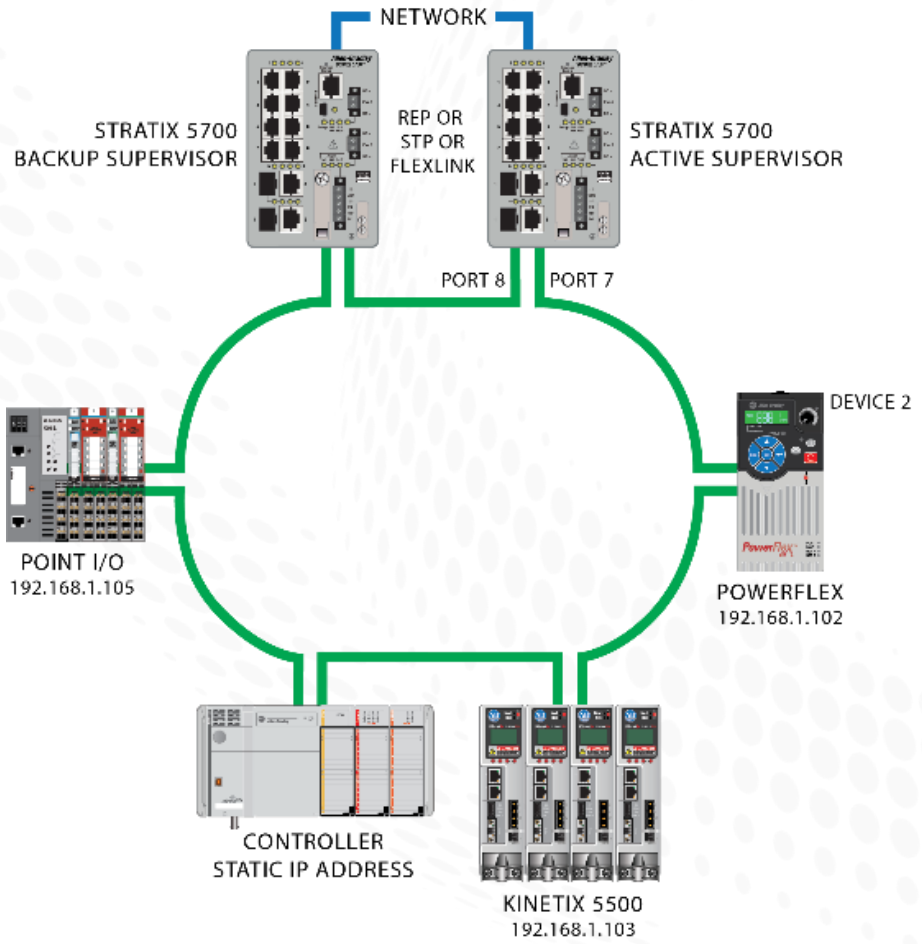
Ethernet version of “daisy chain” allowing for reduced cabling and built in resiliency

Network Address Translation (NAT)

Allows like equipment to be configured identically (IP addressing), yet still accessible on the plant network once commissioned

HMI faceplates

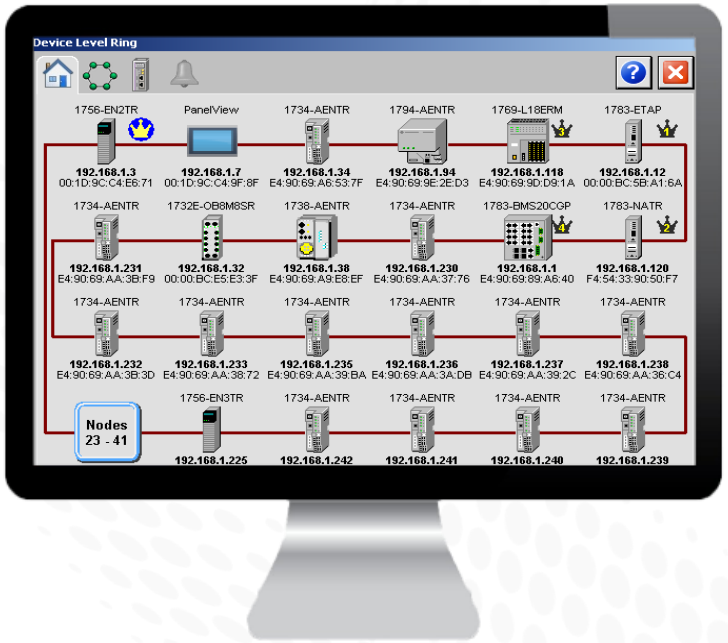
Existing Stratix® switch faceplates enable troubleshooting directly from your Rockwell Automation® HMI applications through diagnostics information, reducing the need for PC-based troubleshooting



The value of Stratix® switches: Maintain

DLR overview faceplate

Reduce MTTR by providing instant feedback to maintenance via the HMI about topology and connectivity



Technical support

Stratix® switches are covered under your existing TechConnect℠ support agreement. This also provides support capabilities for the entire Rockwell Automation® control system as opposed to support tied only to the switch itself

Auto device configuration/replace

When combining Stratix® switches and Logix controllers, it is possible to replace devices on the network in a “plug and play” fashion. The IP address and configuration parameters are automatically downloaded upon replacement

Testing

All of the Stratix® portfolio of products undergoes not only functional testing, but also system level testing within a Rockwell Automation® architecture

Unmanaged & lightly managed switches

Stratix® 2000 unmanaged switch

- No configuration required
- Expanded portfolio contains support for up to 16 ports
- Multiple combinations of Fast Ethernet gigabit copper and small form factor pluggable (SFP) ports

Stratix® 2500 lightly managed switch

- Addresses network uptime challenges where unmanaged switches lack the ability to detect network loops, enhance traffic performance, and enhance your security posture
- VLANs allow for logical segmentation in a single switch, reducing the risk of packet storms that can bring down your network
- Gain critical diagnostic information and enable port security to disable ports or control end device connectivity, within your Integrated Architecture® system

Low-cost, compact solutions

Automatically negotiates speed and duplex settings

No, or minimal, configuration required

Managed switches

Stratix® 5400 and Stratix® 5410 switches

- All gig port options for high-performance resilient network requirements
- Layer 3 routing capability for segmented network and plant to enterprise integration
- Rack mount and DIN rail mount options
- Integrated Device Level Ring (DLR) connectivity optimizes the network architecture

Stratix® 5700 & ArmorStratix™ 5700 switches

- Power over Ethernet (PoE and PoE+) delivers power over a single Ethernet cable
- Network Address Translation (NAT) reduces commissioning time
- Integrated Device Level Ring (DLR) connectivity optimizes the network architecture
- IP67-rated options for wash down protection

Stratix® 5200 Managed Industrial Switch

- Layer 2 switch using VLANs with trunking from plant cell to cell
- Layer 3 routing providing connection from the plant to enterprise
- You can reduce downtime with redundant power inputs and the backup/restore functionality using the optional 8-gigabyte SD card
- Includes Studio 5000® Add-on Profiles (AOPs) which enable premier integration into the Rockwell Automation® Integrated Architecture® system

Premier integration into Integrated Architecture® systems

Embedded Cisco technology

IT and OT configuration and support tools

Rockwell Automation

Communication modules

1756 communication modules

- Supports several CIP protocols as well as other network protocols
- Supports both real-time I/O messaging and message exchange
- Supports extreme environment
- Offers secure connectivity from the control system to upper level systems with secure communication module

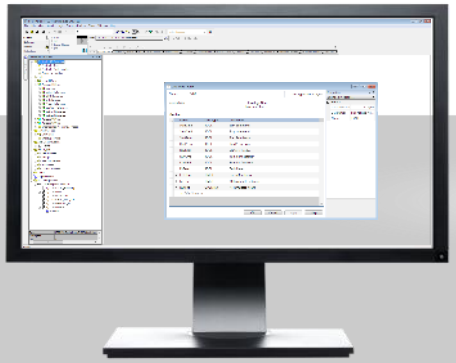
1756-EN4TR EtherNet/IP communication module

- Uses CIP Security protocol
- Provides CIP Security capabilities to ControlLogix® chassis, which include ControlLogix® 5570 controllers
- Offers higher performance with 10M/100M 1 gigabit speed
- Supports ability to receive planned future enhancements

Communication links between devices

Secure connectivity from control system

Real-time I/O messaging



Software and Analytics Portfolio

Studio 5000

Design

Studio 5000® & Connected Components Workbench™

- Combines elements of design into a standard framework
- Intuitive integrated design environment focuses on rapid design, re-use, and collaboration

FactoryTalk®

Visualization & Collaboration

FactoryTalk® View ME , FactoryTalk® View SE,ThinManager

- Enables a comprehensive picture of operations
- Centralized management solutions for the modern factory
- Provides the right content to the right person in the right place

FactoryTalk®

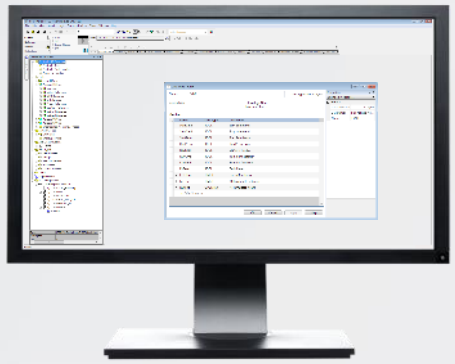
Analytics & Maintenance

FactoryTalk® Analytics and FactoryTalk® AssetCentre

- Performs system level health & diagnostics to solve hard-to-discover issues
- Built-in chat feature to ask questions on devices
- Automatic dashboards are created to display information

Rockwell Automation

Design Software



Studio 5000® Integrated Design Environment

- A single design environment that can be used for many disciplines and industries
- Combines engineering and design elements into one standard framework
- Central launching place for all applications including Logix Designer application, Architect, Application Code Manager, View Designer, and Emulate

Connected Components Workbench™

- Set of tools supporting component-level products for your small machine
- Follows IEC 61131-3 PLC programming standard
- User-defined function blocks speed machine development
- Tag configuration and screen design ease operator interface configuration

Collaborative environment

Scalable for all industrial applications

Reduces design time

VISUALIZATION PORTFOLIO

MACHINE LEVEL HMI

FT View Machine Edition

Studio 5000 View Designer®

Machine-level, single station HMI running on industrial PC or terminal platform

SCALABLE HMI

FT View Site Edition

PlantPAx
Distributed Control System

PC-based HMI that scales from single station up to multi-server, multi-client distributed applications, with web client access via mobile device or browser

FT Optix

EXTENDING THE HMI

THINMANAGER
A ROCKWELL AUTOMATION TECHNOLOGY

FT Historian SE

FT AssetCentre®

Secure and manage visualization client hardware and deliver additional content by device, user, location, and/or event

Capture, manage and analyze process data

Address security and regulatory compliance

Rockwell Automation

Visualization & Collaboration Software

FactoryTalk® View

- Comprehensive view across entire lines and production processes
- Machine-level and supervisory-level HMI software for monitoring standalone and distributed-server/multi-user applications
- Offers runtime user management, language switching and faster commissioning time

ThinManager®

- Thin client management software platform for industrial automation applications
- Centralized management of applications allows delivery of a customized user experience at every device based on the role of the device and/or the user
- Built-in location-based mobility solution delivers content securely to mobile devices at specific locations

FactoryTalk® Optix

- A cloud Based HMI
- Enables collaboration between Local HMI to Cloud based HMI platform
- Get real-time data from devices, alarm systems and analytics appliances which use local communications & OPC

Real-time data for better decision making

Deliver the right content to the right people

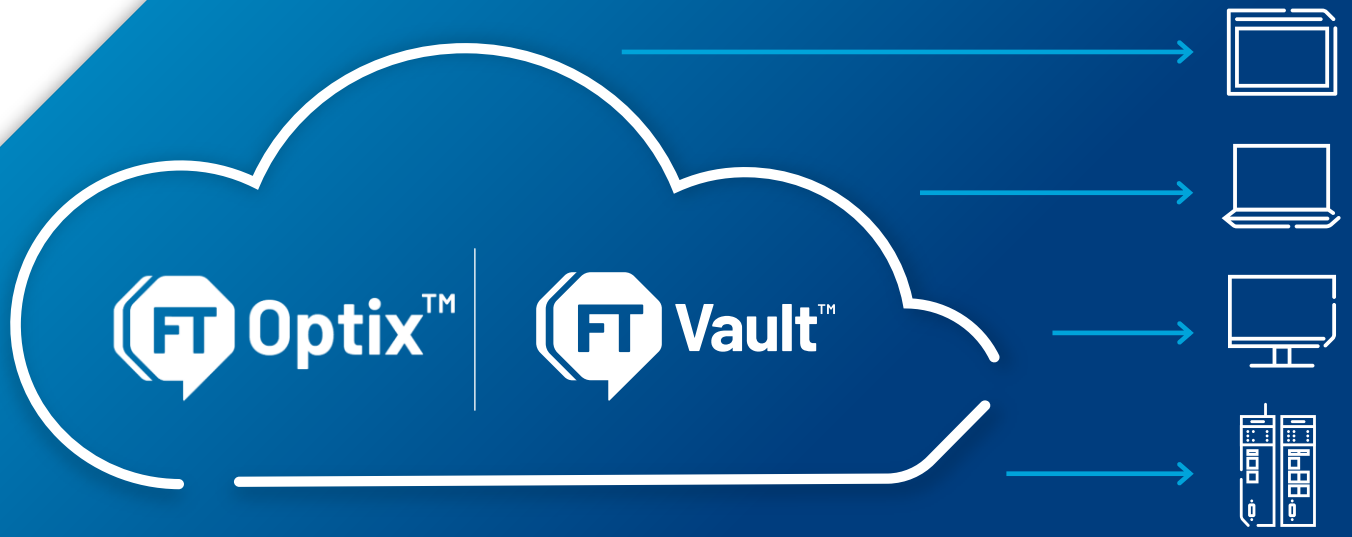
Increase uptime with alarms & notifications

INTRODUCING

FT Optix™

An open, scalable, flexible, visualization platform

Welcome to a new platform that accelerates value delivery with modern technologies, innovative designs and scalable deployment options



Rockwell Automation

Adding FactoryTalk® Optix™ to Rockwell's visualization portfolio

- **Modular deployment** – uses only the components needed to run the project
- **Responsive graphics** - detects screen size and adapts layout accordingly
- **Multi-user collaboration** - using a web-based designer in the cloud
- **Version control** - using industry tools such as FT Vault and GitHub
- **Open architecture** – fully extensible with C# programs
- **Remote management** –update and maintain projects online
- **3rd party support** – built-in connectivity to non-Rockwell devices
- **IoT / OPC UA applications** – support for Industry 4.0 and Digital Transformation

Bringing new capabilities to serve our customers like we never have before!

Rockwell Automation

Visualization portfolio

Smart HMI solutions for any application

EOI	HMI / IPC	DCS
Machine-Level HMI	**Scalable HMI**	**Distributed Control Systems**
Dedicated operator terminal or industrial PC	Single station or distributed server/client HMI on Industrial PCs	Plant-wide process control systems
FactoryTalk View Machine Edition	**FactoryTalk View Machine Edition**	**PlantPAx systems leveraging FactoryTalk View Site Edition**
Studio 5000 View Designer	**FactoryTalk View Site Edition**	**VersaView 6300 IPCs, Thin Clients, and Monitors**
PanelView 5000	**FactoryTalk Optix (coming soon!)**	
PanelView Plus 7	**ASEM 6300 IPCs, Thin Clients, and Monitors**	
FactoryTalk Optix Panel (coming soon!)		

PlantPAx
Distributed Control System

THINMANAGER
A ROCKWELL AUTOMATION TECHNOLOGY

provides centralized content management solutions for any type of application

Rockwell Automation

THINMANAGER®

A ROCKWELL AUTOMATION TECHNOLOGY

The Platform

For more than 20 years ThinManager has simplified content delivery and device management in manufacturing to increase productivity, in a secure and scalable way with a focus on:

-Productivity
-Visualization
-Mobility
-Security

Reduce Cost of Ownership

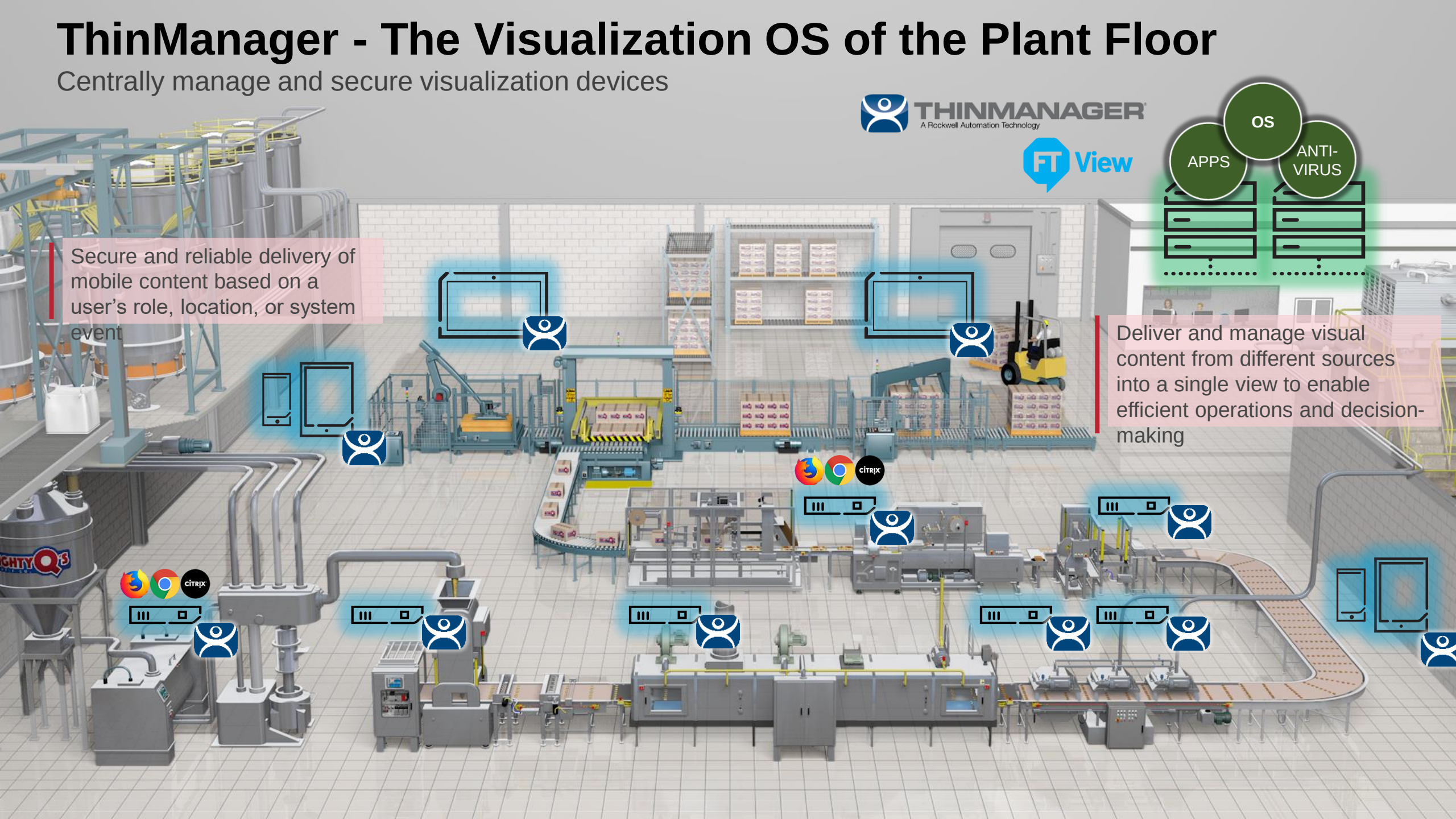
- Reduced cybersecurity footprint with zero clients
- Simplify application and patch management for IT
- Reduce time to replace and commission workstations

Future Value

- Simple troubleshooting of Logix controller code
- Modernized interfaces
- Support for cloud and other modern IT infrastructures
- Custom creation and management of thin client hosted applications
- Enterprise management

ThinManager - The Visualization OS of the Plant Floor

Centrally manage and secure visualization devices



Simplified visual content delivery

Visual Content Types

- Remote Desktop Server Applications
- VNC Server PanelView™ Plus, PanelView™ 5000
- Terminal Shadow
- Web Content
- IP Cameras USB Cameras

Configuration

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Management

- Container Images
- Hardware

Delivery

- Devices
- Users
- Locations
- Events

ThinManager Expanding Capabilities of the Visualization Solution

Coming soon – Winter 2022

Preferred Hardware Integration

Solve IT challenges of long boot time due to complicated networks

ASEM 6300
Box PC

ASEM 6300
Panel PC

ASEM 6300
Thin Client

Extension of the ASEM portfolio to include new options to make multiple product families capable to be shipped with **ThinManager Ready capabilities + Secure Boot** and soon with **ThinManager firmware installed**

Preferred Software Integration

Reduce OT downtime spent troubleshooting PLC code

THINMANAGER

FT View

Studio 5000 Logix Designer®

ThinManager Logix PinPoint gives insights to see what caused an event in your visualization system by automating the inspection of Logix code

Operator Interface Portfolio

Component Terminals

PanelView™

- Optimized for compatibility with Micro800™ and MicroLogix™ controller
- Design and configure with built-in software
- Panel-mount display devices

Operator Terminals

PanelView™ and MobileView™

- PanelView™ Plus 7 running FactoryTalk® View Machine Edition software
- PanelView™ 5000 terminals running Studio 5000 View Designer® software
- Closed-platform provides a robust machine interface
- Ethernet communication
- Mobile-enabled devices

Industrial Computers & Thin Clients

VersaView®

- Runs FactoryTalk® View Site Edition Software, ThinManager® ready
- Open-platform flexibility of the Windows® operating system
- Industrial and extreme environment options available
- Thin client options available to manage multiple computers in distributed applications

Component Terminals

PanelView™ 800

- Optimized for compatibility with Micro800™ and MicroLogix™ controllers
- Enables connectivity with CompactLogix™ 5370 L1, L2, and L3 controllers
- Offers remote monitoring and troubleshooting of terminal using a Virtual Network Computing (VNC) server
- Includes high-resolution display with LED backlight supporting 65K colors
- Offers flexible application modes in landscape and portrait

Connectivity with CompactLogix™

High-resolution displays

Built-in Ethernet and serial communication ports

Graphic Terminals

PanelView™ Plus 7

- Includes sizes from 4" to 19" with wide screen and keypad options
- Email and text notification and secure FTP server
- Embedded Ethernet ports for Device Level Ring (DLR) and linear topologies
- Remote device connectivity through VNC or FactoryTalk® ViewPoint

PanelView™ 5000

- PanelView™ 5310 and 5510 provide Logix-based alarms to eliminate need for additional configuration
- Logix tag extended property support helps develop richer content
- Offers emulator to test run a project without downloading to a physical terminal
- Allow for the ability to create custom, reusable add-on graphics

MobileView™ Tethered Second Generation

- Enables operators to move closer to the point of work
- Hardwired E-stop and 3-position enabling switches for additional safety
- Illuminated E-stop, ability to work with the IP65 junction box, and the option to be used as a thin client
- 10" wide display with resistive touch screen for easy viewing

Fully packaged with visualization software

Ethernet connectivity for DLR

Wide range of screen sizes and options

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Industrial Computers & Thin Clients

VersaView® 5400 Industrial Computer

- Integrated modern edgeless, all-glass, ten-point multi-touch screen displays
- Windows 7/WES 7/Windows 10 IoT Enterprise 32 bit & 64 bit operating systems
- Fan-less with no moving parts, no battery design for increased reliability
- Ideal for both standalone machine level and distributed HMI applications

Hazardous Location Industrial Computers

- Rated IECEx, ATEX Category 3 (for gas and dust)
- UL Listed for Class I Division 2 hazardous location
- Panel-mount and non-display options for extreme environments

VersaView® 5200 Thin Clients

- Ideal for distributed applications to manage multiple computers
- Integrates with ThinManager® software for efficient centralized management
- Display and non-display options available
- Delivers content securely in a sustainable and scalable platform

Open architecture for greater flexibility

Supports modern operating systems

Simple configuration and maintenance

ASEM™ 6300 industrial PCs

Rockwell Automation's global brand for industrial PCs

- As a result of Rockwell Automation's acquisition of ASEM™ in April of 2020
  - The Allen-Bradley® portfolio of Industrial PCs expanded to include a configurable family of panel PCs, box PCs, monitors and thin clients
  - ASEM™ 6300 Industrial PCs became available through Rockwell Automation authorized distributors throughout the world
- 6300 is the Bulletin number and it covers the entire ASEM™ family
  - 6300P panel PCs
  - 6300B box PCs
  - 6300T thin client PCs
  - 6300M industrial monitors

ASEM 6300 Family

6300B
Book Mount
Box PCs

6300P & 6300M
Panel PCs &
Monitors

6300B
Wall Mount
Box PCs

6300B & 6300T
Small Book Mount
Box PCs & Thin Clients

15k+ configurations ready to solve customer applications

Thank you

www.rockwellautomation.com