



**Rockwell
Automation**

Stratix switches

**Secure switching infrastructure
for industrial environments**

Facilitating IT/OT Collaboration

Allen-Bradley® Stratix® switches provide a secure switching/ routing infrastructure that supports the needs of a wide range of industrial operations.

Connect these switches to your network devices, such as servers, routers and other switches, to form the communications backbone of your industrial control systems.

Stratix switches are designed, optimized and tested for industrial control systems allowing the control system devices to react in real time to communication events and mitigate risk in a manufacturing environment.

Stratix switches contain distinct capabilities when used with your Logix control system. This includes a rich Logix Designer application interface for configuration and operation of your Stratix equipment working with the control system. Prebuilt operation interfaces for your FactoryTalk® View terminals will service switch alarms automatically, along with product and application support, giving you a single point of contact for support of the industrial control system.

Network switch portfolio overview

Supporting secure network infrastructure for a wide range of industrial applications



Stratix 2000



Stratix 2500



Stratix 5700/
ArmorStratix™ 5700



Stratix 5200
switches



Stratix 5400



Stratix 5800



Stratix 5410

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

UNMANAGED

LIGHTLY MANAGED

FULLY MANAGED

HIGH PERFORMANCE MANAGED

Benefits at a glance

Unmanaged Stratix Switches

- Automatically negotiates speed and duplex settings
- No configuration required
- Low-cost, compact solutions

Lightly Managed Stratix Switches

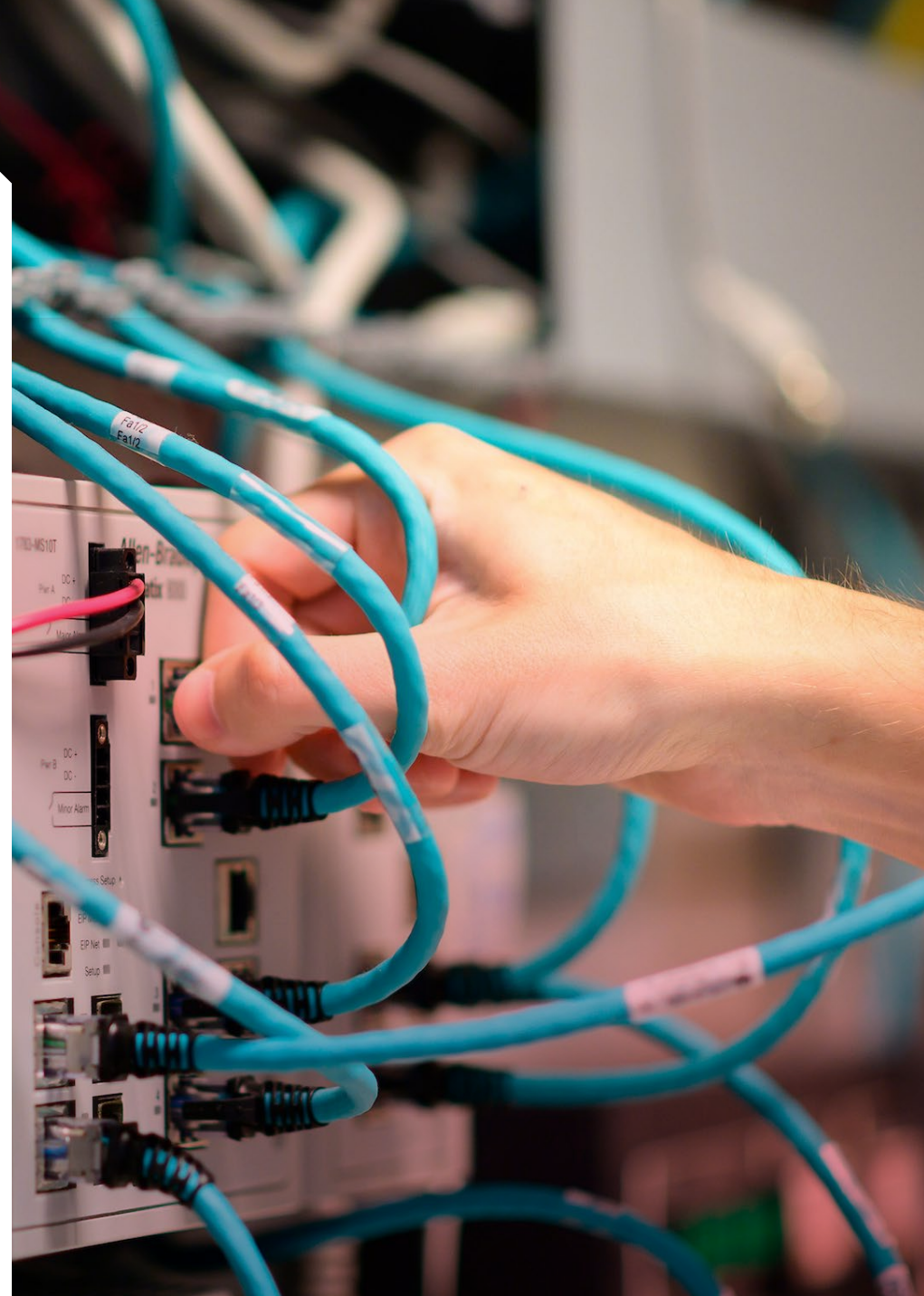
- Automatically negotiates speed and duplex settings
- No configuration required, or can be configured to support security, resiliency and bandwidth optimization
- Low-cost, compact solutions
- Robust security features

Fully Managed Stratix Switches

- Access switches and distribution switches
- Integrated Network Address Translation
- Robust security features
- Resilient network architectures
- Integrated Device Level Ring (DLR) with up to three-ring support
- IT and OT configuration and support tools

High Performance Stratix Switches

- High performance switching up to 10 GB
- Redundant network support via Parallel Redundancy Protocol (PRP) connectivity
- All gigabit
- Integrated NetFlow support
- Robust security features
- Integrated with Cisco® security offerings, like Identity Services Engine (ISE)



Stratix switches – supporting digital transformation

CUSTOMER CHALLENGE	SOLUTION	LIGHTLY MANAGED	FULLY MANAGED	HIGH PERFORMANCE
Unplanned downtime resulting from day-to-day operations	Loop prevention	●	●	●
	High-speed resiliency		●	●
	Redundant networks		●	●
Unexpected events of today and scaling for future needs	Port prioritization/virtual segmentation	●	●	●
	Network prioritization/multi-disciplined		●	●
	Extended gigabit		●	●
	Modular options			●
Actionable information allows collaboration w/remote experts on communications issues	Visibility in operations tools	●	+	+
	Visibility in IT tools			+
	Common IOS and programmability		●	●
Risk mitigation reduces costs of network breaches and product recalls	Port security/segmentation	●	●	+
	Visibility/NetFlow			●
	Third-party security certifications (IEC-62443-4-2)		●	●
	Software defined segmentation		●	●

● Features form the basic structure of the product offering

● Significant enhancements with new product solutions

+ Features shifting to lower tiers in support of customer's digital transformation

Stratix 5410 Industrial High Performance Rack Mount Switches

Advanced Networking Features

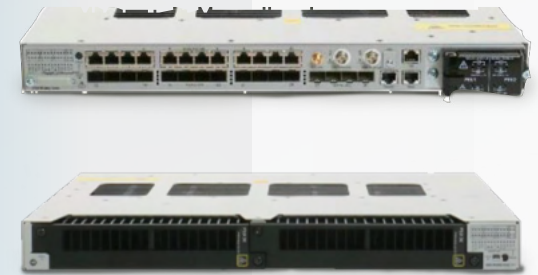
- High performance capabilities with four 10 Gigabit Ethernet (GE) uplink ports and 24 gigabit downlink ports
- Power over Ethernet (PoE/PoE+) support for up to 12 ports
- Network Address Translation support for up to eight ports simultaneously
- Enhanced security options

Optimized Integration

- Embedded Cisco technology provides integration with enterprise network
- FactoryTalk View faceplates for status monitoring and alarming
- Predefined Logix 5000™ tags for monitoring and alarming
- Studio 5000® Add-on Profiles (AOP) for configuration and monitoring

Design Flexibility

- 19" rack mount for increased port density
- Front, rear and wall mounting options for ease of access
- Rugged design to help withstand harsh environmental conditions
- Support for up to two integrated power supplies with AC and DC voltage ranges
- Fiber support for applications where longer distance connectivity is required



Stratix 5800 High Performance Switch

The Stratix 5800 managed switch supports layer 2 switching and layer 3 routing on an all-gigabit platform. The design includes standalone and modular switches. The platform supports up to 26 ports with various copper, PoE and fiber small form factor pluggable (SFP) options, providing flexibility for high performance network applications.

Advanced Networking Features

- High performance capabilities with all gigabit ports
- Power over Ethernet (PoE/PoE+) support for up to 24 ports
- Integrated NAT for high performance translations
- Enhanced security options

Optimized Integration

- Embedded Cisco® technology, including Cisco IOS® XE operating system, helps enable integration with the enterprise network
- Studio 5000 Add-on Profiles (AOPs) enable premier integration into the Rockwell Automation® Integrated Architecture® system
- Predefined named Logix tags for monitoring and port control
- FactoryTalk View faceplates help to enable status monitoring and alarming

Design Flexibility

- Available in fixed or modular base switches
- Single expansion modules with 8 or 16 port expansion capability
- Optional separate hardware switch and expansion modules for “advanced” features
- Dual power inputs for redundant power supply
- Provides dual power inputs to allow higher reliability
- Web User Interface



Stratix 5400 High Performance Switches

All-gigabit port options for high performance network requirements

Layer 3 routing capability for segmented network and plant to enterprise integration

Three-ring DLR support

Power over Ethernet (PoE) on up to eight ports

Integrated Network Address Translation provides 1:1 IP address mapping

All-gigabit (GE) platform for high performance network support

RedBox operation for Parallel Redundancy Protocol

Robust feature options for most demanding applications



Stratix 5200 Fully Managed Switch overview

Base model to more advanced functionality layer 2 offering

- For applications from small isolated to complex networks
- Integrated Device Level Ring and Network Address Translation to provide optimized network integration

Premier integration into the Integrated Architecture system

- Provides solutions for both information technology and operations technology professionals

Optimized Integration

- Embedded Cisco technology provides integration with enterprise network
- FactoryTalk View faceplates for status monitoring and alarming
- Predefined Logix tags for monitoring
- Studio 5000 Add-on Profiles for configuration and monitoring
- Reduce downtime by using the SD card backup/restore functionality for easier configuration between switches or to quickly restore the configuration in the field



Stratix 5700 Lightly and Fully Managed Switches

Lightly managed to more advanced functionality layer 2 offering

- For applications from small isolated to complex networks.
- Integrated Device Level Ring and Network Address Translation to provide optimized network integration

Premier integration into the Integrated Architecture system

- Provides solutions for both information technology and operations technology professionals

Optimized Integration

- Embedded Cisco technology provides integration with enterprise network
- FactoryTalk View faceplates for status monitoring and alarming
- Predefined Logix tags for monitoring
- Studio 5000 Add-on Profiles for configuration and monitoring
- Reduce downtime by using the SD card backup/restore functionality for easier configuration between switches or to quickly restore the configuration in the field



Stratix 2500 Lightly Managed Switch

Networking Features

- Improved network resiliency with virtual local area networks (VLANs) that allow logical segmentation in a single switch. This reduces the risk of packet storms that can bring down the network and increases security by reducing the systems overall attack surface.
- Port security to disable ports or control end device connectivity

Optimized Integration

- Simple management of the Integrated Architecture® network with critical diagnostic information
- Addresses network uptime challenges where unmanaged switches lack the ability to detect and remedy network loops and enhance traffic performance and your security posture

Design Flexibility

- Out of box installation that prioritizes traffic and helps prevent network loops
- Configurable for specific applications to support security, resiliency and bandwidth optimization features
- Reduce downtime by using the SD card backup/restore functionality for easier configuration between switches or to quickly restore the configuration in the field



Stratix 2000

Unmanaged Switch

No configuration is required allowing efficient implementation on the plant floor

Expanded portfolio contains a wide range of products allowing flexibility in the design

Multiple combinations of Fast Ethernet gigabit copper and small form factor pluggable ports



Cisco partnership

We've partnered with Cisco to co-develop managed switches that provide common IT/OT tools.

Our partnership with Cisco has resulted in co-developed industrial network switch technology. Stratix switches that offer the Cisco® IOS enable IT and OT team members to efficiently manage their unique aspects of the industrial control system.

Security

Security capabilities continue to evolve to improve operations and productivity of industrial control systems:

- Visibility features, like integrated NetFlow and RSPAN, work to identify threats in the environment. The ability to detect events on networks allows for faster response and resolution.
- Access control features, like port security, access control lists and integration into Cisco security tools help mitigate the risk of threats to your networked assets. Stratix networks are designed with world-class, market-leading security attributes.
- Enabled IT and OT features provide collaboration with response and recovery from security events that tie into asset management systems and the ability to back up and restore

Allen-Bradley Stratix switches offer a wide range of design options, which help you meet the evolving needs of IT and OT industrial work environments.

Design Optimization

The Stratix portfolio focuses on market-leading enhancements for machine and process skid builders. Examples include:

- Integrated Network Address Translation (NAT) for easy replications and equipment design optimization
- Integration into equipment design and commissioning tools for optimized productivity and reduced time to commission
- High performance, resilient communications to meet the growing connectivity demand of smart machines and equipment for manufacturing and process skids
- Scalable solutions to meet your application connectivity requirements—from unmanaged to high-performance redundant architectures

Advantages

- **Enable** integration of the plant floor with the enterprise network
- **Support** collaboration of people and processes for network design and operations
- **Lower** the total cost of ownership
- **Reduce** system solution risk

Learn more

Stay ahead of challenges in manufacturing and industrial operations with the **Stratix family of switches.**

Provide a secure switching and routing infrastructure

Support the needs of a wide range of industrial operations

Securely connect Ethernet-enabled industrial communication devices in harsh environments

Connect with us.    

rockwellautomation.com

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