Stratix 5410 Industrial Distribution Switch

AB QUALITY *Allen-Bradley*

Features and Benefits

- 19" rack mount design for increased port density
- All-Gigabit Ethernet (GE) platform with optional 10 GE ports for high performance network requirements
- Provides access switching and distribution layer routing capabilities for flexibility in designing network architectures
- Offers support for up to 12 ports of Power over Ethernet (PoE/PoE+) to help minimize hardware and cabling with 28 total ports
- Default configurations for industrial applications providing easy setup and optimized performance
- Support for multiple high performance network resiliency protocols
- Multi-port Network Address Translation (NAT) providing centralized high performance node commissioning
- Secure Digital (SD) card for simplified configuration and device replacement

Optimized Integration:

- Studio 5000® Add-on Profiles (AOPs) enable premier integration into the Rockwell Automation Integrated Architecture® system
- Predefined Logix tags for monitoring and port control
- FactoryTalk® View Faceplates help to enable status monitoring and alarming
- Embedded Cisco technology helps enable integration with the enterprise network and provides common IT development and management tools

Getting the full value out of your network infrastructure is critical, especially in industrial environments where conditions can be extreme and high performance connectivity is required.

To address these challenges, Rockwell Automation offers the Allen-Bradley® Stratix 5410™ Industrial Distribution Switch with a 19" rack mount design. With a rugged exterior, rear mounting capabilities and multiple fiber port options, this switch is an ideal solution for a centralized point of network distribution.
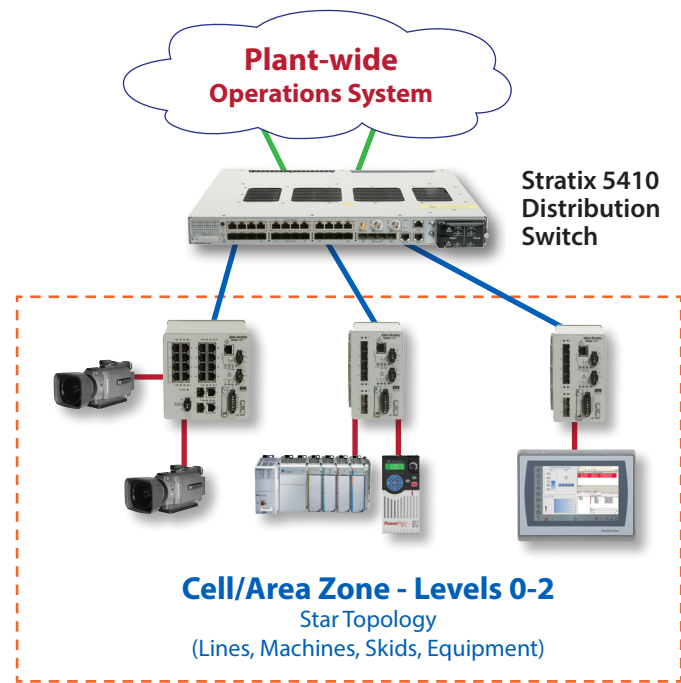
The Stratix 5410 offers an all-Gigabit Ethernet (GE) platform with optional 10 GE ports providing high performance capabilities for networks where high-bandwidth support is needed. This switch can be used as a layer 2 access switch or a layer 3 routing switch providing scalability for use in various applications.

As part of the Stratix™ portfolio of products, the Stratix 5410 offers the same programming and support tools already familiar to both your Operations Technology (OT) and Information Technology (IT) professionals. With integration into Studio 5000 Automation Engineering and Design Environment, FactoryTalk View faceplates and Add-on Profiles can be leveraged for simplified configuration and monitoring. This optimized level of integration helps you experience easier commissioning and faster diagnostics retrieval.

LISTEN. THINK. SOLVE.®

AB *Allen-Bradley* • *Rockwell Software*

Rockwell Automation

Stratix 5410 in a Network Architecture

When used as a layer 2 switch, the Stratix 5410 is an ideal solution for heavy industry applications where resiliency is often required or where high performance end devices, such as video or telephony, are needed.

When used as a Layer 3 switch, the Stratix 5410 provides routing capabilities between segmented networks for better performance and protection from unwanted network traffic. Additionally, segmenting the network helps simplify network security management by building domains of trust.

Plant-wide Operations System

Stratix 5410 Distribution Switch

Cell/Area Zone - Levels 0-2
Star Topology
(Lines, Machines, Skids, Equipment)

Stratix 5410 Configuration Options:

Catalog Item	Total ports	SFP slots	PoE Copper ports*	FW type	1588	NAT	Power Supply**
1783-IMS28GNDC	28	16 GE	12 GE	Layer 2	Yes	Yes	Low DC
1783-IMS28GNAC	28	16 GE	12 GE	Layer 2	Yes	Yes	AC/High DC
1783-IMS28GRDC	28	16 GE	12 GE	Layer 3	Yes	Yes	Low DC
1783-IMS28GRAC	28	16 GE	12 GE	Layer 3	Yes	Yes	AC/High DC
1783-IMS28NDC	28	12 GE + 4 TEN	12 GE	Layer 2	Yes	Yes	Low DC
1783-IMS28NAC	28	12 GE + 4 TEN	12 GE	Layer 2	Yes	Yes	AC/High DC
1783-IMS28RDC	28	12 GE + 4 TEN	12 GE	Layer 3	Yes	Yes	Low DC
1783-IMS28RAC	28	12 GE + 4 TEN	12 GE	Layer 3	Yes	Yes	AC/High DC

Optional Power Supplies	
1783-IMXDC	Low DC
1783-IMXAC	AC/High DC

GE = Gigabit Ethernet, TEN = 10 Gigabit Ethernet

*May be limited to less than 12 PoE ports depending on power available. One power supply provides 60 W for PoE/PoE+. Two power supplies provide 185 W for PoE/PoE+.

**One power supply ships pre-installed in each Stratix 5410 switch. The switch can also support an optional second power supply of any voltage type, if needed.

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