

# Stratix Switch Reference Chart

	MANAGED						Embedded Switch Technology			UNMANAGED					
	Stratix 8000™ and 8300™				Stratix 6000™					Stratix 2000™					
	Base Switch		Base Switch		Expansion Module	Expansion Module				1783-ETAP	1783-ETAP1F	1783-ETAP2F	1783-US03T01F	1783-US05T	1783-US06T01F
1783-MS06T	1783-RMS06T	1783-MS10T	1783-RMS10T	1783-MX08T	1783-MX08F	1783-EMS04T	1783-EMS08T								
Ports Per Module	6		10		8	8	4	9	3	3	3	4	5	7	8
Layer 3 Routing	✓		✓				-		-			-			
Total Max Ports	Up to 26*						-		3	3	3	-			
Fiber Ports			0-10*		-		1		-	1	2	1	-	1	-
10/100 Copper Ports			4-24*		4		8		3	2	1	3	5	6	8
100 Base LC Fiber Ports			0-8*		-				-	1	2	1	-	1	-
SFP Slots			2**		-		1		-			-			
10/100/1000 Copper Ports			2**		-				-			-			
100Mbps Fiber Support			✓		-				-	✓		✓	-	✓	-
1G Fiber Support			✓		-		✓		-			-			
CompactFlash Memory			✓		-				-			-			
Cisco IOS			✓		-				-			-			
RSLogix 5000 Add On Profile			✓		-		✓		✓			-			
VLAN			✓+		✓+				✓			-			
QoS			✓		✓				✓			-			
Bandwidth Threshold Alarming			✓		✓				✓			-			
STP/RSTP			✓		✓				✓			-			
REP (resilient ethernet protocol)			✓		-				-			-			
DLR (device level ring)			-		-				✓			-			
MAC ID Port Security			✓		✓				-			-			
DHCP per port			✓		✓				-			-			
SNMP Support			✓		✓				-			-			
CIP SYNC (IEEE 1588)			✓		✓				✓			-			
IEEE 802.1x Security			✓		-				-			-			
IGMP Snooping and Query			✓		✓				✓			-			
EtherChannels			✓		-				-			-			
Smartports			✓		-				-			-			
Cryptographic Support			✓		-				-			-			
Operating Temperature			-40° to 60° C		-0° to 60° C				-25° to 70° C	-25° to 60° C		0° to 60° C			
Environmental Rating			IP20		IP20				IP20			IP20			
Dimensions	147mm H 152mm W 112mm D***		147mm H 97mm W 112mm D***		114mm H 51mm W 89mm D				132mm H 56.7mm W 105.1mm D			108mm H 28mm H 127mm D		108mm H 45mm H 127mm D	
Power Requirements			24V/48VDC		8-48VDC				24VDC			10-35VDC			

For product availability or more detailed information refer to installation manuals or visit our website [www.ab.com/networks/switches](http://www.ab.com/networks/switches)

\* max port counts require expansion modules

\*\*\* Modular product size will vary with expansion modules

\*\* 2 ports each can be used for SFP or 10/100/1000 copper

✓+ with additional trunking capabilities

# Glossary of Terms

**Bandwidth Threshold Alarming** is a feature that allows the user to configure alarms if the network bandwidth thresholds are exceeded. This feature can provide the user with the ability to track network changes and detect malfunctioning devices on a network.

**CIP SYNC (IEEE1588)** is the ODVA implementation of the IEEE 1588 precision time protocol. This protocol allows very high precision clock synchronization across automation devices. CIP SYNC is an enabling technology for time-critical automation tasks such as accurate alarming for post-event diagnostics, precision motion and high precision first fault detection or sequence of events.

**Cisco IOS (Internetwork Operating System)** is the software operating system used on the majority of Cisco network routing and switch devices. Cisco IOS has a command line interface (CLI) that provides a very flexible configuration tool which is familiar to IT professionals. The Stratix 8000 and 8300 specifically utilize the Cisco Catalyst switch architecture and feature set that provides a set of robust features compatible with the Cisco IT enterprise environment.

**Cryptographic Support** provides network security by encrypting administrator traffic during Telnet and SNMP sessions.

**DHCP per port** allows you to assign a specific IP address to each port, ensuring that the device attached to a given port will get the same IP address. This feature allows for device replacement without having to manually configure IP addresses.

**DLR (Device Level Ring)** – Allows establishment of a resilient ring network at the device level without the need of external switching hardware. The fast network recovery rate makes the protocol ideal for real-time control applications. The DLR protocol is a standard protocol supported and maintained by ODVA.

**EtherChannel** is a port trunking technology. EtherChannel allows grouping several physical Ethernet ports to create one logical Ethernet port. Should a link fail, the EtherChannel technology will automatically redistribute traffic across the remaining links. This automatic recovery is fast and transparent to network applications and the end user. This makes it very resilient and desirable for mission-critical applications.

**IGMP Snooping** (Internet Group Management Protocol) constrains the flooding of multicast traffic by dynamically configuring switch ports so that multicast traffic is forwarded only to ports associated with a particular IP multicast group.

**Layer 3 Routing** allows the capability to route between VLANs and subnets. The Stratix 8300 supports static routing, dynamic routing, multicast routing, redundant routing and IPv6 routing.

**MAC ID Port Security** is a feature that checks the MAC ID of a device connected to the network and determines if it is authorized on the network. The controller receives notification when a new MAC ID (device) appears on the network. This feature provides a method to track network changes from the controller.

**QoS** – Quality of Service (QoS) is the ability to provide different priority to different applications, users, or data flows, to help provide a higher level of determinism on your network.

**REP (Resilient Ethernet Protocol)** – A ring protocol that allows switches to be connected in a ring, ring segment or nested ring segments. REP provides network resiliency across switches with a rapid recovery time ideal for industrial automation applications.

**RSLogix 5000 AOP** refers to the switch AOP (Add On Profile) embedded in the RSLogix 5000 software. The switch AOP allows easy switch setup and diagnostics with Logix controllers and the Integrated Architecture.

**SNMP** Simple Network Management Protocol (SNMP) is a management protocol typically used by IT to help monitor and configure network-attached devices.

**STP/ RSTP** Spanning Tree Protocol (STP), is a feature that provides a resilient path between switches. Used for applications that requires a fault tolerant network. Rapid Spanning Tree Protocol (RSTP) is an evolution of the STP and provides for faster spanning tree convergence after a topology change.

**VLAN** or virtual LAN, is a feature that allows you to group hosts with a common set of requirements into network segments. The VLAN feature can be used to ease network management on the production network.

**802.1x Security** is an IEEE standard for access control and authentication. It can be used to track access to network resources and helps secure the network infrastructure.