

	Switching and Routing							Security Appliance		Wireless	
Hardware Features	1783-NATR Network Address Translation Router	Stratix® 2000 Unmanaged Switch	Stratix® 2500 Lightly Managed Switch	Stratix® 5700 Managed Switch	ArmorStratix™ 5700 Managed Switch	Stratix® 8000 and Stratix® 8300 Managed Switch	Stratix® 5400 Managed Switch	Stratix® 5410 Distribution Switch	Stratix® 5900 Services Router	Stratix® 5950 Security Appliance	Stratix® 5100 Wireless Access Point/Workgroup Bridge
Ports Per Module	2	5, 8, 10, 16, 18 port versions	5 and 8 port versions	6, 10, 18 and 20 port versions	8, 10, 16, 18, 24 port versions	6 and 10 port base switches copper, fiber, SFP slot and PoE expansion modules	8, 12, 16 and 20 port versions	28	4 LAN, 1 WAN	4 total. Either 4 Copper or 2 Copper + 2 Fiber	1
Total Max Ports	2	up to 18	8	20	up to 24	up to 26	20	28	4 LAN, 1 WAN	4	2 (1 Ethernet, 1 Console)
Fiber Ports	—	up to 2	—	up to 6 SFP Ports	—	up to 14 SFP slots	up to 12 SFP slots	16 SFP slots	0	up to 2	—
Copper Ports	2	up to 16	Up to 8	6 to 18 ports	8 to 24	6 to 26	8 to 20 ports	12	5	up to 4	—
1G Ports	—	up to 8 copper and 2 SFP slots	—	up to 2 copper or SFP slots	up to 2 copper	2 copper or SFP slots	All	All	1 WAN	All ports	1
100 Mbs Fiber Support	—	Yes	—	Yes	—	Yes	Yes	Yes	—	Yes	—
1G Fiber Support	—	Yes	—	Yes	up to 12	Yes	Yes	Yes	—	Yes	—
10G Fiber Support	—	—	—	—	—	—	—	Yes	—	—	—
Power over Ethernet (PoE)	—	—	—	up to 4 ports	up to 8 ports	up to 12 ports	up to 8 ports	up to 12 ports, may require additional power supply	—	—	—
Flash Memory	Yes (SD card)	—	—	Internal Flash and SD card (optional)	Internal Flash and SD card (optional)	Compact flash card (included)	Internal Flash and SD card (included)	Internal Flash and SD card (included)	—	Yes (SD Card)	32 MB nonvolatile memory

**Power over Ethernet (PoE)** provides electrical power along with data on a single Ethernet cable to end devices.

	Switching and Routing							Security Appliance		Wireless	
Specification	1783-NATR Network Address Translation Router	Stratix® 2000 Unmanaged Switch	Stratix® 2500 Lightly Managed Switch	Stratix® 5700 Managed Switch	ArmorStratix™ 5700 Managed Switch	Stratix® 8000 and Stratix® 8300 Managed Switches	Stratix® 5400 Managed Switch	Stratix® 5410 Distribution Switch	Stratix® 5900 Services Router	Stratix® 5950 Security Appliance	Stratix® 5100 Wireless Access Point/Workgroup Bridge
Operating Temperature	-25 to 70 °C	-10 °C to 60 °C 1783-US5T and 1783-US8T: -40 to 70 °C 1783-US4T1F, 1783-US4T1H, 1784-US5TG, 1783-US6T2F, 1783-US6T2H, 1783-US7T1F, 1783-US7T1H, 1783-US6T2TG2F, 1783-US6T2TG2H 1783-US8TG2CG, 1783-US16T, 1783-US16T2S	-20 to 60 °C	-40 to 60 °C	-40 to 60 °C	-40 to 60 °C	-40 to 70 °C	-40 to 60 °C	-25 to 60 °C	-40 to 60 °C	0 to 60 °C
Environmental Rating	None (open-type)	IP30	IP30	IP30	IP67	IP20	IP30	IP30	IP30	—	—
Dimensions	131 mm H 35 mm W 104 mm D	115-135 mm H 30-88 mm W 68 - 106 mm D	130 mm H 38-46 mm W 117 mm D	130 mm H 75 to 127 mm W 117 to 128 mm D	240 mm H 240 to 370 mm W 60 to 80 mm D	Base Switch Expansion: Module: • 146 mm H • 147 mm H • 152 mm W • 97 mm W • 122 mm D • 122 mm D	160 mm H 150 mm W 129 mm D	40 mm H 440 mm W 300 mm D	44 mm H 196 mm W 206 mm D	130 mm H 107 mm W 160 mm D	220 mm H 220 mm W 40 mm D
Power Requirements	20.4V - 27.6V DC	24V (18-60V DC, 18-30V AC 50/60 Hz) Class 2 /SELV	12-24V DC, 0.3-2.0A	12V/24V/48V DC Class 2 / SELV	12V/24V/48V DC Class 2 / SELV	18V-60V DC	12V-54V DC	24V-60V DC or 100-240V DC and 100-250V DC	85V-264V AC 100V-240V AC nom	Maximum operating range: 9.6 to 60 VDC Rated: +/- 12 to 48 VDC	48V DC or PoE
Certifications	c-UL-us Certified / Class I, D 2, Groups A,B,C,D / CE / RCM / ATEX / IECEx / KCC / EtherNet/IP / EAC	c-UL-us Certified / Class I, D 2, Groups A,B,C,D / CE / RCM / ATEX / EtherNet/IP / KCC / RCM	c-UL-us Certified / Class I, D 2, Groups A,B,C,D / CE / RCM / ATEX / EtherNet/IP / KCC / CM / Anatel/BSMI Taiwan	c-UL-us Certified / Class I, D 2, Groups A,B,C,D / CE / RCM / ATEX / EtherNet/IP / Marine / KCC / Anatel / BSMI Taiwan / RCM	cUL-us Certified / CE / RCM / KCC / EtherNet/IP / BSMI Taiwan/EAC	c-UL-us Certified / Class I, D 2, Groups A,B,C,D / CE / RCM / ATEX/EtherNet/IP / Marine/KCC/BSMI Taiwan	c-UL-us Certified / Class I, D 2, Groups A,B,C,D / CE / RCM / ATEX / EtherNet/IP / KCC / BSMI Taiwan/EAC	c-UL-us Certified/Class I, D 2, Groups A,B,C,D / CE / RCM / ATEX / EtherNet/IP / KCC / BSMI Taiwan	c-UL-us ITE Certified / CE / RCM / CCC / KCC	c-UL-us Certified/Class I, D 2, Groups A,B,C,D / CE / RCM / ATEX	802.11n v2 / cUL Certified / EtherNet/IP - These are country specific products, so the certifications vary. REGD A, REGD B, REGD C, REGD E, REGD N, REGD T and REGD Z
More Information	1783-TD001	1783-TD001	1783-TD001	1783-TD001	1783-TD001	1783-TD001	1783-TD001	1783-TD001	1783-TD001	1783-TD001	1783-TD001

	Switching and Routing							Security Appliance		Wireless	
	1783-NATR Network Address Translation Router	Stratix® 2000 Unmanaged Switch	Stratix® 2500 Lightly Managed Switch	Stratix® 5700 Managed Switch	ArmorStratix™ 5700 Managed Switch	Stratix® 8000 and Stratix® 8300 Managed Switches	Stratix® 5400 Managed Switch	Stratix® 5410 Distribution Switch	Stratix® 5900 Services Router	Stratix® 5950 Security Appliance	Stratix® 5100 Wireless Access Point/Workgroup Bridge
<b>Software Features</b>											
Cisco IOS	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	15.3 with Device Manager
Cisco ASA and FirePOWER technology	—	—	—	—	—	—	—	—	—	Yes	—
Quality of Service (QoS)	Yes, on Private port	—	Basic management for QoS	Yes*	Yes	Yes	Yes	Yes	Yes	—	Yes
Layer 3 routing	—	—	—	—	—	8300 Only	Yes**	Yes**	Yes	Yes	Yes
DLR (Device Level Ring) -Supervisor -Redundant gateway -DHCP	Yes	—	—	Yes (single ring), select versions	—	—	Yes (3 rings)	—	—	—	—
IGMP snooping and query	Yes	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	—
STP/RSTP	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	Yes
SNMP support	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Etherchannels	—	—	Yes	Yes*	Yes	Yes	Yes	Yes	—	Yes	—
REP (Resilient Ethernet Protocol)	—	—	—	Yes	Yes	Yes	Yes	Yes	—	—	Cisco Discovery Protocol (CDP)
CIP Sync (IEEE 1588)	Yes, on Private port	Yes, pass through	Yes, pass through	Yes**	Yes**	Yes	Yes	Yes	Yes, pass through	—	Limited
Static and InterVLAN Routing	—	—	—	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	—
VLANs	—	—	Yes with trunking	Yes with trunking	Yes with trunking	Yes with trunking	Yes with trunking	Yes with trunking	Yes with trunking	Yes	Yes with trunking
Network Address Translation (NAT)	Yes (UP TO 32)	—	—	Yes**	Yes**	—	Yes	Yes	Yes	Yes	—
Flexlinks	—	—	—	Yes**	Yes	Yes	Yes	Yes	—	—	—
PRP	—	—	—	—	—	—	Yes	Yes	—	—	—
Port Thresholds/Storm Control	—	—	Yes	Yes**	Yes	Yes	Yes	Yes	—	—	—

**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 Cisco Catalyst switch architecture and feature set provides a set of robust features compatible with the Cisco IT enterprise environment.

**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.

**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. This feature includes static routing, dynamic routing, multicast routing, redundant routing and IPv6 routing.

**Network Address Translation (NAT)** provides 1:1 translations of IP addresses from one subnet to another. Can be used to integrate machines into an existing network architecture.

**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.

**Smartports** provide a set of configurations to optimize port settings for common devices like automation devices, switches, routers, PCs and wireless devices. Smartports can also be customized for specific needs.

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

**Static and InterVLAN Routing** bridges the gap between layer 2 and layer 3 routing providing limited static and connected routes across VLANs.

**STP/RSTP** Spanning Tree Protocol, is a feature that provides a resilient path between switches. Used for applications that requires a fault tolerant network.

**VLANs with Trunking** is a feature that allows you to group devices with a common set of requirements into network segments. VLANs can be used to provide scalability, security and management to your network.

\* Software Option  
\*\* Option

	Switching and Routing							Security Appliance		Wireless	
	1783-NATR Network Address Translation Router	Stratix® 2000 Unmanaged Switch	Stratix® 2500 Lightly Managed Switch	Stratix® 5700 Managed Switch	ArmorStratix® 5700 Managed Switch	Stratix® 8000 and Stratix® 8300 Managed Switches	Stratix® 5400 Managed Switch	Stratix® 5410 Distribution Switch	Stratix® 5900 Services Router	Stratix® 5950 Security Appliance	Stratix® 5100 Wireless Access Point/Workgroup Bridge
<b>Security Features</b>											
Port Control in Logix	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
Port Security	—	—	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	—	Yes
Access Control Lists (ACL)	—	—	—	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IEEE 802.1x Security	—	—	—	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes***
Stateful Inspection Firewall - Zone-Based Firewall (ZFW)	—	—	—	—	—	—	—	—	Yes	Yes	—
VPN-IPsec	—	—	—	—	—	—	—	—	Yes	Yes	—
Centralized Authentication Capable (RADIUS, TACACS+)	—	—	—	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes

\* Software Option  
 \*\* Option  
 \*\*\* also 802.11i/WPA2

**Access Control Lists** allow you to filter network traffic. This can be used to selectively block types of traffic to provide traffic flow control or provide a basic level of security for accessing your network.

Stratix Configuration & Troubleshooting Features	Switching and Routing							Security Appliance		Wireless	
	1783-NATR Network Address Translation Router	Stratix 2000™ Unmanaged Switch	Stratix® 2500 Lightly Managed Switch	Stratix 5700™ Managed Switch	ArmorStratix™ 5700 Managed Switch	Stratix 8000™ and Stratix 8300™ Managed Switches	Stratix® 5400 Managed Switch	Stratix® 5410 Distribution Switch	Stratix® 5900 Services Router	Stratix® 5950 Security Appliance	Stratix® 5100 Wireless Access Point/Workgroup Bridge
Device Manager	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes*	Yes*	Yes
Stratix Configurator	—	—	—	—	—	—	—	—	Yes	—	Yes
Cisco Network Assistant	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	Yes
Command Line Interface	—	—	Yes (debug only)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
AOP (CIP)	Yes, EDS AOP	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	Yes
SmartPorts	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—
Real-time Diagnostics	Yes, EDS AOP	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	Yes
Faceplates	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	Yes
Compact Flash card	Yes	—	—	—	—	Yes	—	—	—	—	—
SD Card	—	—	—	Yes**	Yes**	—	Yes	Yes	—	Yes	—
DHCP per port	—	—	—	Yes	Yes	Yes	Yes	Yes	—	—	Yes
Broken wire detection	—	—	Yes	Yes	Yes	Yes	Yes	Yes	—	—	—

\* Software Option  
 \*\* Option

**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.