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Cisco CRS 8-Slot Single-Shelf System

The Cisco[®] Carrier Routing System (CRS) offers industry-leading performance, advanced services intelligence, environmentally conscious design, and system longevity. The Cisco CRS is powered by a chipset architecture based on multidimensional engineering and Cisco IOS[®] XR Software, a unique self-healing, distributed operating system.

Packet-based data communications are being replaced by video and interactive multimedia transported on the Next-Generation Network (NGN) in multiple directions. This new traffic strains the architectural foundations of both public and private networks serving businesses and consumers. As part of a media-aware Cisco Next Generation Network, the Cisco CRS delivers highly reliable operations and scales easily from single-chassis form factors to a massive multi-chassis system. The Cisco CRS also referred to as the CRS-1, CRS-3, and CRS-X is a system that is both forward and backward compatible, built for investment protection and designed to provide industry-leading efficiencies in scaling, energy use, cooling, and rack-space resources.

The Cisco CRS 8-Slot Single-Shelf System (Figure 1) offers many advantages:

- The system is powered by a chipset architecture engineered for the Cisco CRS Router Family, which
 provides higher bandwidth than competing products, without compromising service performance. The
 Cisco CRS chipset is based on multidimensional engineering that includes several functional components
 working in tandem throughout the platform.
- The system uses Cisco IOS XR Software, the only fully modular, fully distributed internetwork operating system using a memory-protected, microkernel-based architecture and control-plane distribution that allows the system to scale and provide always-on operation.
- This single-shelf system is compatible with existing and future line cards of the Cisco CRS Family.
- The fully redundant carrier-class configuration supports in-service upgrades from 40 Gbps to 400 Gbps per slot.
- Integrated technology includes IP and Multiprotocol Label Switching (MPLS) routing, IP over dense wavelength-division multiplexing (IPoDWDM), network virtualization with secure domain routers (SDRs), fabric multicast replication, fabric quality of service (QoS), Cisco NetFlow accounting, and Carrier-Grade IPv6 (CGv6) to provide an outstanding quality of experience (QoE) at the lowest possible total cost of ownership (TCO).
- The system can also scale with back-to-back system capability, connecting two CRS 8-Slot Chassis directly, using switch fabric cards and optical cables to form a single logical system.



Figure 1. Cisco CRS 8-Slot Single Shelf System

Product Specifications

Table 1 provides detailed product specification for both the Cisco CRS-8/S and CRS-8/S-B chassis as well as specifications for the CRS 8-Slot Single-Shelf System back-to-back multichassis.

	CRS-8/S-B CRS	CRS-8/SCRS
Feature	Description	
Product compatibility	Compatible with all current Cisco CRS Family modular services cards (MSCs), forwarding processors, physical layer interface modules (PLIMs), Label Switch Processors (CRS-LSPs), route processors, and fabric cards	Compatible with all current Cisco CRS Family modular services cards (MSCs), forwarding processors, physical layer interface modules (PLIMs), CRS Label Switch Processors (CRS-LSPs), route processors, and fabric cards
Back-to-Back Compatibility	Yes	Yes
Software compatibility	Cisco IOS XR Software Release 4.1.2 or later	Cisco IOS XR Software Release 4.0.0 or later Cisco IOS XR Software Release 3.0.0 or later
Protocols	 Cisco Discovery Protocol IPv4 and IPv6 addressing Internet Control Message Protocol (ICMP) Layer 3 routing protocols, including: Border Gateway Protocol Version 4 (BGPv4) Multiprotocol BGP Version 4 (MP-BGP v4) Open Shortest Path First Version 2 (OSPFv2) OSPFv3 Intermediate System-to-Intermediate System (IS-IS) Protocol Static Routes Routing Policy Language (RPL) Multicast forwarding with support for source-based and shared distribution trees and the following protocols: Protocol Independent Multicast sparse mode (PIM-SM) 	 Cisco Discovery Protocol IPv4 and IPv6 addressing Internet Control Message Protocol (ICMP) Layer 3 routing protocols, including: Border Gateway Protocol Version 4 (BGPv4) Multiprotocol BGP Version 4 (MP-BGP v4 Open Shortest Path First Version 2 (OSPFv2) OSPFv3 Intermediate System-to-Intermediate System (IS-IS) Protocol Static Routes Routing Policy Language (RPL) Multicast forwarding with support for source-based and shared distribution trees and the following protocols: Protocol Independent Multicast sparse mode (PIM-SM)

 Table 1.
 Specifications of Cisco CRS 8-Slot Single Shelf System Chassis

	CRS-8/S-B CRS	CRS-8/SCRS
Feature	Description	
	 Bidirectional PIM (Bidir-PIM) 	 Bidirectional PIM (Bidir-PIM)
	 PIM source-specific mode (PIM SSM) 	 PIM source-specific mode (PIM SSM)
	 Automatic route processing (AutoRP) 	 Automatic route processing (AutoRP)
	 Internet Group Management Protocol (IGMP) Versions 1, 	 Internet Group Management Protocol (IGMP) Versions 1,
	2, and 3	2, and 3
	 Multiprotocol BGP (MBGP) 	 Multiprotocol BGP (MBGP)
	 Multicast Source Discovery Protocol (MSDP) 	 Multicast Source Discovery Protocol (MSDP)
	 Multiprotocol Label Switching (MPLS): 	 Multiprotocol Label Switching (MPLS):
	 MPLS Label Distribution Protocol (LDP) 	 MPLS Label Distribution Protocol (LDP)
	 Resource Reservation Protocol (RSVP) 	 Resource Reservation Protocol (RSVP)
	 DiffServ-Aware Traffic Engineering (TE) 	 DiffServ-Aware Traffic Engineering (TE)
	 MPLS Traffic Engineering control plane (RFCs 2702 and 2430) 	 MPLS Traffic Engineering control plane (RFCs 2702 and 2430)
	 Route Policy Language (RPL) 	 Route Policy Language (RPL)
	Management:	Management:
	 Simple Network Management Protocol (SNMP) 	 Simple Network Management Protocol (SNMP)
	 Programmatic interfaces (XML) 	 Programmatic interfaces (XML)
	Security:	Security:
	 Message Digest Algorithm (MD5) 	 Message Digest Algorithm (MD5)
	 IP Security (IPsec) Protocol 	 IP Security (IPsec) Protocol
	 Secure Shell Protocol Version 2 (SSHv2) 	 Secure Shell Protocol Version 2 (SSHv2)
	 Secure FTP (SFTP) 	 Secure FTP (SFTP)
	 Secure Sockets Layer (SSL) 	 Secure Sockets Layer (SSL)
Components	Each Cisco CRS enhanced 8-slot line card chassis includes:	Each Cisco CRS 8-slot line card chassis includes:
·	 2 Cisco CRS 8-slot line card chassis route processors (CRS-8-RP) 	 1 Cisco CRS 8-slot line card chassis route processor (CRS- 8-RP)
	 4 Cisco CRS 8-slot fabric cards 	 4 Cisco CRS 8-slot fabric cards
	• 2 power supplies (either DC or AC)	 2 power supplies (either DC or AC)
	• 2 fan trays	• 2 fan trays
	Optional items:	Optional items include:
	8 Cisco CRS line cards	8 Cisco CRS line cards
	8 Cisco CRS PLIMs	8 Cisco CRS PLIMs
Line Cards,	 1-port OC-768c/STM-256c packet over SONET (PoS) 	 1-port OC-768c/STM-256c packet over SONET (PoS)
ports, and slots	 4-port OC-192c/STM-64c PoS/Dynamic Packet Transport (DPT) 	4-port OC-192c/STM-64c PoS/Dynamic Packet Transport (DPT)
	16-port OC-48c/STM-16 PoS/DPT	 16-port OC-48c/STM-16 PoS/DPT
	 8-port 10 Gigabit Ethernet (GE) 	 8-port 10 Gigabit Ethernet (GE)
	• 4-port 10 GE	• 4-port 10 GE
	• 42-port 1 GE	• 42-port 1 GE
	 1-port OC-768c/STM-256c Tunable WDMPoS 	 1-port OC-768c/STM-256c Tunable WDMPoS
	4-port 10 GE tunable WDMPHY	 4-port 10 GE tunable WDMPHY
	• 14-port 10 GE LAN/WAN PHY	• 14-port 10 GE LAN/WAN PHY
	• 20-port 10 GE LAN/WAN PHY	• 20-port 10 GE LAN/WAN PHY
	1-Port 100 Gigabit Ethernet Interface Module	1-Port 100 Gigabit Ethernet Interface Module
	Cisco CRS-1-SIP-800 Carrier Card	Cisco CRS-1-SIP-800 Carrier Card
	 2- and 4-port OC-3c/STM-1c PoS shared port adapters (SPAs) 	 2- and 4-port OC-3c/STM-1c PoS shared port adapters (SPAs)
	 1-port, 2-port, and 4-port OC-48c/STM-16c PoS/RPR SPA 1-port OC-192c/STM-64c PoS/RPR SPA 	 1-port, 2-port, and 4-port OC-48c/STM-16c PoS/RPR SPA 1-port OC-192c/STM-64c PoS/RPR SPA
	 1-port 10 GE SPA 2 port and 4 port Clear Channel T2/E3 SPAs 	 1-port 10 GE SPA 2 port and 4 port Clear Channel T2/E3 SPAc
	 2-port and 4-port Clear Channel T3/E3 SPAs 2 port 4 port and 8 port OC 12c/STM 4 Pos SPAs 	 2-port and 4-port Clear Channel T3/E3 SPAs 2 port 4 port and 8 port OC 12c/STM 4 Pos SPAc
	 2-port, 4-port, and 8-port OC-12c/STM-4 PoS SPAs 2 port 5 port 8 port and 10 port CE SPAs 	 2-port, 4-port, and 8-port OC-12c/STM-4 PoS SPAs 2 port 5 port 8 port and 10 port GE SPAs
	 2-port, 5-port, 8-port, and 10-port GE SPAs 1 port 10 GE LANAWAN PHY SPA 	2-port, 5-port, 8-port, and 10-port GE SPAs
	1-port 10 GE LAN/WAN-PHY SPA	1-port 10 GE LAN/WAN-PHY SPA
	 20-port GE flexible interface module 	 20-port GE flexible interface module

	CRS-8/S-B CRS	CRS-8/SCRS	
Feature	Description		
	 2-port 10 GE WAN/LAN-PHY flexible interface module Flexible SPA and 6-port 10GE PLIM 2-Port 40GE LAN/OTN Interface Module 4-Port 40GE LAN/OTN Interface Module 1-Port 100 Gigabit Ethernet Coherent DWDM Interface Module 40x10 Gigabit Ethernet Interface Module 4-Port 100GE LAN/OTN Interface Module 	 2-port 10 GE WAN/LAN-PHY flexible interface module Flexible SPA and 6-port 10GE PLIM 2-Port 40GE LAN/OTN Interface Module 4-Port 40GE LAN/OTN Interface Module 1-Port 100 Gigabit Ethernet Coherent DWDM Interface Module 40x10 Gigabit Ethernet Interface Module 4-Port 100GE LAN/OTN Interface Module 	
Fabric Cards	CRS-8-FC/S CRS-8-140FC/S CRS-8-FC140/M CRS-8-FC400/S CRS-8-FC400/M	CRS-8-FC/S CRS-8-140FC/S CRS-8-FC140/M CRS-8-FC400/S CRS-8-FC400/M *Note: Legacy chassis is limited to 200G on CRS-8-FC400/S on CRS-8-FC400/M	
Connectivity	PoS, WDM, DPT, T3/E3, 100 GE, 10 GE, 1 GE	PoS, WDM, DPT, T3/E3, 100 GE, 10 GE, 1 GE	
functions	 Control-plane packet handling IPv4 host services IPv4 unicast forwarding IPv4 equal-cost multipath (ECMP) IPv6 host services IPv6 forwarding services IPv6 ECMP 	 Control-plane packet handling IPv4 host services IPv4 unicast forwarding IPv4 equal-cost multipath (ECMP) IPv6 host services IPv6 forwarding services IPv6 ECMP 	
	 Forwarding features: Access control lists (ACLs) Quality of service (QoS) and class of service (CoS) using Modular QoS CLI (MQC) IP packet classification and marking Queuing (both ingress and egress) Policing (both ingress and egress) Diagnostic and network-management support IPv4 multicast features: 	 Forwarding features: Access control lists (ACLs) Quality of service (QoS) and class of service (CoS) using Modular QoS CLI (MQC) IP packet classification and marking Queuing (both ingress and egress) Policing (both ingress and egress) Diagnostic and network-management support IPv4 multicast features: 	
	 Dynamic registration using IGMP Multicast Reverse Path Forwarding (RPF) PIM sparse mode (SM) PIM source-specific mode (PIM SSM) Automatic route processing MSDP MBGP Bidirectional PIM Source Specific Multicast with IGMPv3 Explicit tracking of hosts, group, and channels for IGMPv3 	 Dynamic registration using IGMP Multicast Reverse Path Forwarding (RPF) PIM sparse mode (SM) PIM source-specific mode (PIM SSM) Automatic route processing MSDP MBGP Bidirectional PIM Source Specific Multicast with IGMPv3 Explicit tracking of hosts, group, and channels for IGMPv3 Multicast nonstop forwarding (NSF) 	
	 Multicast nonstop forwarding (NSF) MPLS features: MPLS forwarding and load balancing LDP RSVP MPLS traffic-engineering features User-Network Interface (UNI) Link Management Protocol (LMP) Security features: Message Digest Algorithm 5 (MD5) Secure Sockets Layer (SSL) Secure Shell (SSH) Protocol and Secure FTP (SFTP) Secure HTTP (SHTTP) support 	 Multidast horistop forwarding (NSF) MPLS features: MPLS forwarding and load balancing LDP RSVP MPLS traffic-engineering features User-Network Interface (UNI) Link Management Protocol (LMP) Security features: Message Digest Algorithm 5 (MD5) Secure Sockets Layer (SSL) Secure Shell (SSH) Protocol and Secure FTP (SFTP) Secure HTTP (SHTTP) support 	

	CRS-8/S-B CRS	CRS-8/SCRS	
Feature	Description		
	Control packet policing	Control packet policing	
	IP Security (IPsec)	IP Security (IPsec)	
	Manageability features:	Manageability features:	
	 Alarms management 	 Alarms management 	
	Configuration management	Configuration management	
	Accounting and statistics management	Accounting and statistics management	
	Performance management Control point and potwork management. Conoria	 Performance management Control point and network management: Generic 	
	 Control point and network management - Generic requirements 	requirements	
	Terminal services enhancements	Terminal services enhancements	
	 Enhanced command-line interface (CLI) 	 Enhanced command-line interface (CLI) 	
	 Extensible Markup Language (XML) interface 	 Extensible Markup Language (XML) interface 	
	XML schemas	XML schemas	
	 Cisco Craft Works Interface (CWI) 	 Cisco Craft Works Interface (CWI) 	
	 Common Object Request Broker Architecture (CORBA) support 	 Common Object Request Broker Architecture (CORBA) support 	
	 Simple Network Management Protocol (SNMP) and MIB support 	 Simple Network Management Protocol (SNMP) and MIB support 	
Options	Cisco CRS-1 8-Slot Line Card Chassis Route Processor (CRS-8-RP)	Cisco CRS-1 8-Slot Line Card Chassis Route Processor (CRS-8-RP)	
Performance	6.4/2.24-Tbps switching capacity	2.24-Tbps switching capacity	
Reliability and	System redundancy:	System redundancy:	
availability	 Power-shelf redundancy 1:1 	Power-shelf redundancy 1:1	
	 Fan-tray redundancy 1:1 	Fan-tray redundancy 1:1	
	 Route-processor redundancy 1:1 	 Route-processor redundancy 1:1 	
	 Fabric-card redundancy 1:4 	 Fabric-card redundancy 1:4 	
	 Dual homing with line cards 	 Dual homing with line cards 	
	 Support for APS 	Support for APS	
	Software features:	Software features:	
	 NSF using graceful restart for: IS-IS, OSPF, BGP, LDP, and RSVP 	 NSF using graceful restart for: IS-IS, OSPF, BGP, LDP, an RSVP 	
	SONET APS 1:1	SONET APS 1:1	
	Line-card OIR support	Line-card OIR support	
	 Fabric-card OIR support 	Fabric-card OIR support	
	 Out-of-resource management 	Out-of-resource management	
	 Process restartability 	Process restartability	
	 MPLS Fast Reroute (FRR) 	MPLS Fast Reroute (FRR)	
	 Hot Standby Router Protocol (HSRP) and Virtual Router Redundancy Protocol (VRRP) 	 Hot Standby Router Protocol (HSRP) and Virtual Router Redundancy Protocol (VRRP) 	
MIBs	SNMP framework support:	SNMP framework support:	
	• SNMPv1	• SNMPv1	
	• SNMPv2c	• SNMPv2c	
	SNMPv3	• SNMPv3	
	MIB II, including interface extensions (RFC 1213)	MIB II, including interface extensions (RFC 1213)	
		, , ,	
		SNMP-FRAMEWORK-MIB SNMP TARCET MIR	
		SNMP-TARGET-MIB SNMP NOTIFICATION MID	
		SNMP-NOTIFICATION-MIB	
	• SNMP-USM-MIB	• SNMP-USM-MIB	
	• SNMP-VACM-MIB	• SNMP-VACM-MIB	
	System management:	System management:	
	CISCO- BULK-FILE-MIB	CISCO- BULK-FILE-MIB	
	CISCO-CONFIG-COPY-MIB	CISCO-CONFIG-COPY-MIB	
	CISCO-CONFIG-MAN-MIB	CISCO-CONFIG-MAN-MIB	

	CRS-8/S-B CRS	CRS-8/SCRS
Feature	Description	
	CISCO-MEMORY-POOL-MIB	CISCO-MEMORY-POOL-MIB
	Cisco FTP Client MIB	Cisco FTP Client MIB
	Cisco Process MIB	Cisco Process MIB
	Cisco Syslog MIB	Cisco Syslog MIB
	CISCO-SYSTEM-MIB	CISCO-SYSTEM-MIB
	CISCO-CDP-MIB	CISCO-CDP-MIB
	• IF-MIB (RFC 2233/RFC 2863)	• IF-MIB (RFC 2233/RFC 2863)
	Chassis:	Chassis:
	• ENTITY-MIB (RFC 2737)	ENTITY-MIB (RFC 2737)
	CISCO-entity-asset-MIB	CISCO-entity-asset-MIB
	CISCO-entity-sensor-MIB	CISCO-entity-sensor-MIB
	 CISCO-FRU-MIB (Cisco-Entity-FRU-Control-MIB) 	 CISCO-FRU-MIB (Cisco-Entity-FRU-Control-MIB)
	Fabric:	Fabric:
	CISCO-Fabric-HFR-MIB	CISCO-Fabric-HFR-MIB
	CISCO-Fabric-Mcast-MIB	CISCO-Fabric-Mcast-MIB
	CISCO-Fabric-Mcast-Appl-MIB	CISCO-Fabric-Mcast-Appl-MIB
	Routing protocols:	Routing protocols:
	BGP4-MIB Version 1	BGP4-MIB Version 1
	OSPFv1MIB (RFC1253)	OSPFv1MIB (RFC1253)
	CISCO-IETF-IP-FORWARDING-MIB	CISCO-IETF-IP-FORWARDING-MIB
	IP-MIB (was RFC2011-MIB)	 IP-MIB (was RFC2011-MIB)
	• TCP-MIB (RFC 2012)	• TCP-MIB (RFC 2012)
	• UDP-MIB	• UDP-MIB
	CISCO-HSRP-EXT-MIB	CISCO-HSRP-EXT-MIB
	CISCO-HSRP-MIB	CISCO-HSRP-MIB
	 CISCO-BGP-POLICY-ACCOUNTING-MIB 	CISCO-BGP-POLICY-ACCOUNTING-MIB
	QoS:	QoS:
	 MQC-MIB (Cisco Class-Based QoS MIB) 	 MQC-MIB (Cisco Class-Based QoS MIB)
	CISCO-PING-MIB	CISCO-PING-MIB
	Traps:	Traps:
	• RFC 1157	• RFC 1157
	Authentication	Authentication
	• Linkup	• Linkup
	Linkdown Coldstart	Linkdown Coldatart
	Coldstart Warmstart	Coldstart Warmstart
Network management	Enhanced CLI	Enhanced CLI
management	• XML interface	• XML interface
	Cisco Craft Works Interface (CWI)	Cisco Craft Works Interface (CWI)
	SNMP and MIB support	SNMP and MIB support
Programming interfaces	XML schema support	XML schema support
Physical	Chassis height: 38.5 in. (97.79 cm, with base cosmetics)	Chassis height: 38.5 in. (97.79 cm, with base cosmetics)
dimensions	Chassis width: 17.5 in. (44.45 cm)	Chassis width: 17.5 in. (44.45 cm)
	Chassis depth: 36.6 in (92.964 cm); 40.5 in. (102.87 cm), including full cosmetics	Chassis depth: 36.6 in (92.964 cm); 40.5 in. (102.87 cm), including full cosmetics
	Weight:	Weight:
	 330.8 lb (148.86 kg) chassis with fans, PDUs, and blanks (as shipped) 	 330.8 lb (148.86 kg) chassis with fans, PDUs, and blanks (as shipped)
	 650 lb (292.5 kg) chassis as shipped, including power shelves and all line cards and route processors 	 650 lb (292.5 kg) chassis as shipped, including power shelves and all line cards and route processors
Power	 Chassis power supply maximum output capacity: 8.4 kW for DC power supply and 9 kW for AC power supply 	 Chassis power supply maximum output capacity: 8.4 kW for DC power supply and 9 kW for AC power supply

	CRS-8/S-B CRS	CRS-8/SCRS
Feature	Description	
Environmental	Storage temperature: -40 to 158年 (-40 to 70℃)	Storage temperature: -40 to 158 F (-40 to 70 °C)
conditions	Operating temperature:	Operating temperature:
	● Normal: 41 to 104年 (5 to 40℃)	● Normal: 41 to 104年 (5 to 40℃)
	 Short-term: 23 to 122 𝗜 (-5 to 50 𝔅) 	 Short-term: 23 to 122 𝗜 (-5 to 50℃)
	Relative humidity:	Relative humidity:
	 Normal: 5 to 85% 	 Normal: 5 to 85%
	 Short-term: 5 to 90% but not to exceed 0.024 kg water per kg of dry air 	 Short-term: 5 to 90% but not to exceed 0.024 kg water per kg of dry air
	 Note: Short-term refers to a period of not more than 96 consecutive hours and a total of not more than 15 days in 1 year (a total of 360 hours in any given year, but no more than 15 occurrences during that 1-year period) 	 Note: Short-term refers to a period of not more than 96 consecutive hours and a total of not more than 15 days in 1 year (a total of 360 hours in any given year, but no more than 15 occurrences during that 1-year period)

Approvals and Compliance

Table 2 lists compliance and agency approvals for both models of the Cisco CRS 8-Slot Single-Shelf System.

Feature	Description
Safety standards	 UL/CSA/IEC/EN 60950-1 AS/NZS 60950.1 IEC/EN 60825 Laser Safety FDA - Code of Federal Regulations Laser Safety
Electromagnetic interference (EMI)	 FCC Class A ICES 003 Class A AS/NZS CISPR 22 Class A CISPR 22 (EN55022) Class A VCCI Class A IEC/EN 61000-3-2: Power Line Harmonics IEC/EN 61000-3-3: Voltage Fluctuations and Flicker
Immunity (basic standards)	 IEC/EN-61000-4-2: Electrostatic Discharge Immunity (8-kV contact, 15-kV air) IEC/EN-61000-4-3: Radiated Immunity (10V/m) IEC/EN-61000-4-4: Electrical Fast Transient Immunity (2-kV power, 1-kV signal) IEC/EN-61000-4-5: Surge AC Port (4-kV CM, 2-kV DM) IEC/EN-61000-4-5: Signal Ports (1 kV) IEC/EN-61000-4-5: Surge DC Port (1 kV) IEC/EN-61000-4-6: Immunity to Conducted Disturbances (10 Vrms) IEC/EN-61000-4-8: Power Frequency Magnetic Field Immunity (30A/m) IEC/EN-61000-4-11: Voltage Dips, Short Interruptions, and Voltage Variations
ETSI and EN	 EN300 386: Telecommunications Network Equipment (EMC) EN55022: Information Technology Equipment (Emissions) EN55024: Information Technology Equipment (Immunity) EN50082-1/EN-61000-6-1: Generic Immunity Standard
Network Equipment Building Systems (NEBS)	 This product is designed to meet the following requirements (qualification in progress): SR-3580: NEBS Criteria Levels (Level 3) GR-1089-CORE: NEBS EMC and SafetyGR-63-CORE: NEBS Physical Protection

Table 2.	Approvals and Compliance for Cisco CRS-8/S and Cisco CRS-8/S-B
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System Capacity

Table 3 shows the system capacity of the Cisco CRS 8-Slot Single-Shelf System.

 Table 3.
 System Capacity for Cisco CRS 8-Slot Single-Shelf System

Number of Interface Slots	Maximum Capacity per Slot	Total Capacity
8	400 Gbps per slot ingress and 400 Gbps per slot egress	6.4 Tbps per single-shelf system

Ordering Information

To place an order, visit the <u>Cisco ordering homepage</u> and refer to Table 4 for ordering information. To download Cisco IOS Software, visit the <u>Cisco Software Center</u>.

Table 4. Ordering Information for Cisco CRS 8-Slot Single-Shelf System

Product Name	Product Part Number
Cisco CRS 8-Slot Single-Shelf System	CRS-8/S
Cisco CRS 8-Slot Single-Shelf System Enhanced	CRS-8/S-B

Cisco Services

Cisco Services make networks, applications, and the people who use them work better together.

Today, the network is a strategic platform in a world that demands better integration between people, information, and ideas. The network works better when services, together with products, create solutions aligned with business needs and opportunities.

The unique Cisco Lifecycle approach to services defines the requisite activities at each phase of the network lifecycle to help ensure service excellence. With a collaborative delivery methodology that joins the forces of Cisco, our skilled network of partners, and our customers, we achieve the best results.

For More Information

For more information about the Cisco 8-Slot Single-Shelf System, the Cisco CRS, other available interfaces, and related products, visit Cisco at <u>http://www.cisco.com/go/crs</u> or contact your local Cisco account representative.

For more information about the Cisco CRS Multichassis System see the <u>Cisco CRS Multichassis System data</u> <u>sheet</u>.



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