

# N5K-C5596UP-FA Datasheet

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## Overview

N5K-C5596UP-FA is the Cisco Nexus 5596UP Switch, including 48 fixed unified ports, Front-to-Back Airflow, 2 1100W AC Power Supplies, Fan Trays, 3 Expansion Slots.

### Quick Specs

Figure 1 shows the appearance of Cisco Nexus 5596UP Switch. N5K-C5596UP-FA is its chassis.

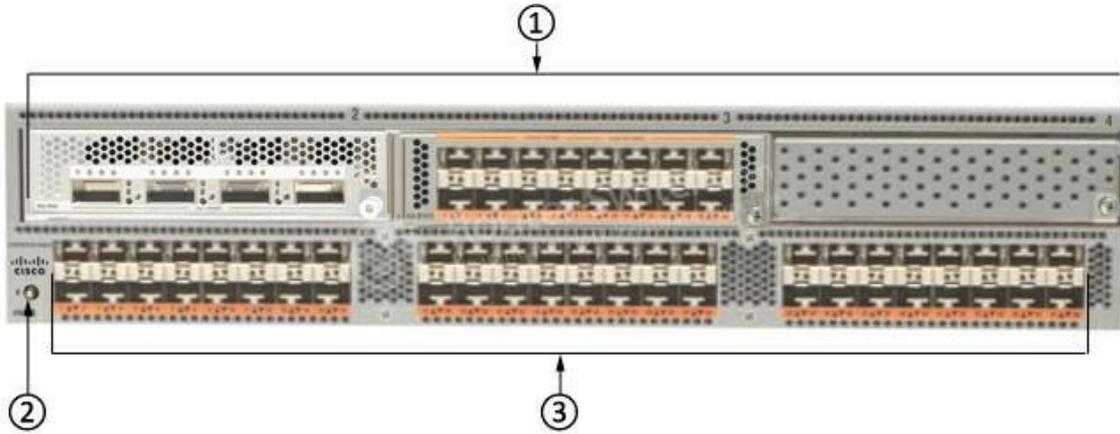


Table 1 shows the Quick Specs.

<b>Product Code</b>	<b>N5K-C5596UP-FA</b>
<b>Performance</b>	Layer 2 hardware forwarding at 1920 Gbps or 1428 mpps; Layer 3 performance of up to 160 Gbps or 240 mpps
<b>Form Factor</b>	2RU
<b>Fixed Ports</b>	48 fixed unified ports
<b>Power Supplies</b>	2 1100W AC Power Supplies
<b>Fan Modules</b>	4
<b>Expansion Slots</b>	3
<b>Airflow</b>	Front-to-Back
<b>Physical (height x width x depth)</b>	3.47 x 17.3 x 29.5 in. (8.8 x 43.9 x 74.9 cm)
<b>Weight#with two 1100W power supplies, 3 unified port expansion modules, and 4 fan modules#</b>	47.5 lb (21.55 kg)

### Product Details

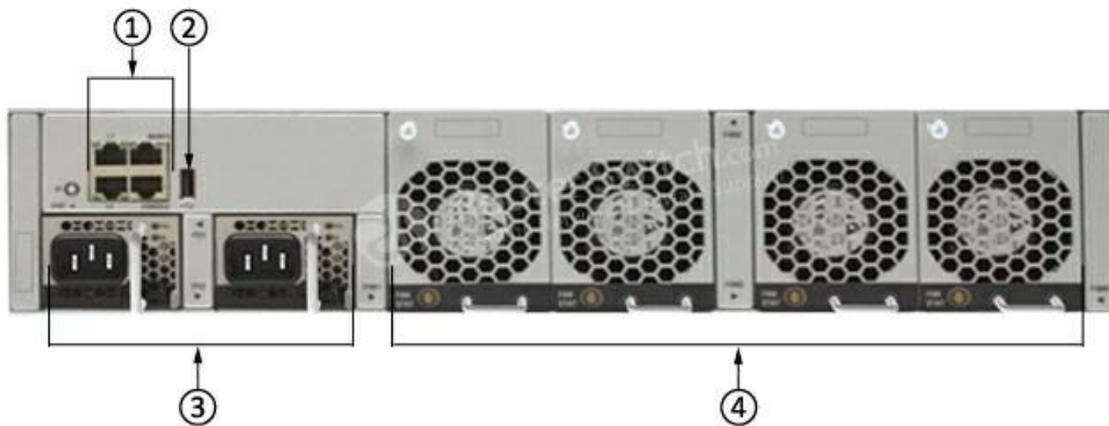
Figure 2 shows the front panel of Cisco Nexus 5596UP Switch. N5K-C5596UP-FA is its chassis.



Note:

(1)	Expansion modules, shown here with three 16-port Universal GEM2 modules (can also have Layer 3 GEM2 modules)
(2)	Identifier LED
(3)	48 fixed 1- and 10-Gigabit Ethernet ports

Figure 3 shows the back panel of Cisco Nexus 5596UP Switch. N5K-C5596UP-FA is its chassis.



Note:

(1)	Management and console ports (two RJ-45 Ethernet connector ports on the left, a RJ-45 network management connector on the upper right, and a console connector on the lower right)
(2)	USB port
(3)	Two power supplies
(4)	Four fan modules

## The Accessories

Table 2 shows the recommended elements for the N5K-C5596UP-FA.

Category	Model	Description
Nexus 5500 Expansion Slot	N55-M16UP	Nexus 5500 Unified Ports Module 16p, Spare
	N55-D160L3-V2	Nexus 5596 Layer 3 Expansion Module, Version 2
N5K Transceiver and Cable	SFP-H10GB-CU1M	10GBASE-CU SFP+ Cable 1 Meter

	<a href="#">SFP-H10GB-ACU7M</a>	Cisco Direct-Attach Active Optical Cables with SFP+ Connectors, SFP-H10GB-ACU7M
<b>License</b>	<a href="#">N55-48P-SSK9</a>	Nexus 5500 Storage License, 48 Ports

## Compare to Similar Items

Table 3 shows the comparison of N5K-C5596UP-FA, N5K-C5596T-FA and N5K-C5548UP-FA.

Product Code	N5K-C5596UP-FA	N5K-C5596T-FA	N5K-C5548UP-FA
<b>Form Factor</b>	2RU	2RU	1RU
<b>Fixed Ports</b>	48 fixed unified ports	32x10GT/16xSFP+ Fixed Ports	32 fixed unified ports
<b>Power Supplies</b>	2 1100W AC Power Supplies	2 1100W AC Power Supplies	2 750W AC Power Supplies
<b>Fan Modules</b>	4	4	2
<b>Expansion Slots</b>	3	3	1
<b>Airflow</b>	Front-to-Back	Back-to-Front	Front-to-Back

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## Specification

<b>N5K-C5596UP-FA Specifications</b>	
Performance	<ul style="list-style-type: none"> <li>Layer 2 hardware forwarding at 1920 Gbps or 1428 mpps; Layer 3 performance of up to 160 Gbps or 240 mpps</li> <li>MAC address table entries: 32,000</li> <li>Low-latency cut-through design that provides predictable, consistent traffic latency regardless of packet size, traffic pattern, or enabled features on 10 Gigabit Ethernet interfaces</li> <li>Line-rate traffic throughput on all ports</li> </ul>
Interfaces	<ul style="list-style-type: none"> <li>48 fixed ports configurable as 1 and 10 Gigabit Ethernet and FCoE or 8/4/2/1-Gbps native Fibre Channel; additional interfaces through up to three expansion modules</li> <li>Expansion modules</li> <li>16-port 1 and 10 Gigabit Ethernet and FCoE module</li> <li>8-port 8/4/2/1-Gbps Fibre Channel plus 8-port 1 and 10 Gigabit Ethernet and FCoE module</li> <li>Unified port module consisting of 16 ports configurable as 8/4/2/1-Gbps Fibre Channel or 1 and 10 Gigabit Ethernet and FCoE</li> <li>4-port QSFP expansion module</li> <li>12-port 10G BASE-T module (Cisco Nexus 5596T only)</li> <li>Layer 3 module (Cisco Nexus 5596UP and 5596T only; one per system)</li> <li>Layer 3 daughter card (Cisco Nexus 5548P and 5548UP only; one per system)</li> <li>Extension through the Cisco Nexus 2000 Series</li> </ul>

<p>Layer 2 Features</p>	<ul style="list-style-type: none"> <li>• Layer 2 switch ports and VLAN trunks</li> <li>• IEEE 802.1Q VLAN encapsulation</li> <li>• Support for up to 4096 VLANs</li> <li>• Rapid Per-VLAN Spanning Tree Plus (PVRST+) (IEEE 802.1w compatible)</li> <li>• Multiple Spanning Tree Protocol (MSTP) (IEEE 802.1s): 64 instances</li> <li>• Spanning Tree PortFast</li> <li>• Spanning Tree root guard</li> <li>• Spanning Tree Bridge Assurance</li> <li>• Cisco EtherChannel technology (up to 16 ports per EtherChannel)</li> <li>• Cisco vPC technology</li> <li>• Enhanced vPC enable vPC between Cisco Nexus 5000 and 2000 Series as well as between Cisco Nexus 3000 Series and end host</li> <li>• vPC configuration synchronization</li> <li>• Link Aggregation Control Protocol (LACP): IEEE 802.3ad</li> <li>• Advanced port channel hashing based on Layer 2, 3, and 4 information</li> <li>• Jumbo frames on all ports (up to 9216 bytes)</li> <li>• Pause frames (IEEE 802.3x)</li> <li>• Storm control (unicast, multicast, and broadcast)</li> <li>• Private VLANs</li> <li>• Private VLAN over trunks (isolated and promiscuous)</li> <li>• Private VLANs over vPC and EtherChannels</li> <li>• VLAN Remapping</li> <li>• Cisco FabricPath</li> <li>• EvPC and vPC+ with FabricPath</li> <li>• Cisco Adapter FEX</li> <li>• Cisco Data Center VM FEX</li> <li>• Support for up to 24 fabric extenders on each Cisco Nexus 5500 platform</li> </ul>
<p>Layer 3 Features</p>	<ul style="list-style-type: none"> <li>• Layer 3 interfaces: Routed ports on Cisco Nexus 5500 platform interfaces, switch virtual interface (SVI), port channels, subinterfaces, and port channel subinterfaces for a total of 4096 entries</li> <li>• Support for up to 8000 prefixes and up to 16000 IPv4 and 8000 IPv6 host entries</li> <li>• Support for up to 8000 multicast routes</li> <li>• Support for up to 8000 IGMP groups</li> <li>• Support for 1000 VRF entries</li> <li>• Support for up to 4096 VLANs</li> <li>• 16-way equal-cost multipathing (ECMP)</li> <li>• 1664 ingress and 2048 egress access control list (ACL) entries</li> <li>• Routing protocols: Static, Routing Information Protocol Version 2 (RIPv2), Enhanced Interior Gateway Routing Protocol (EIGRP), Open Shortest Path First Version 2 (OSPFv2), and Border Gateway Protocol (BGP)</li> <li>• IPv6 Routing Protocols: Static, Open Shortest Path First Version 3 (OSPFv3), Border Gateway Protocol (BGPv6), Enhanced Interior Gateway Routing Protocol (EIGRPv6)</li> <li>• IPv6 VRF Lite</li> <li>• Hot-Standby Router Protocol (HSRP) and Virtual Router Redundancy Protocol (VRRP)</li> <li>• ACL: Routed ACL with Layer 3 and 4 options to match ingress and egress ACL</li> <li>• Multicast: Protocol Independent Multicast Version 2 (PIMv2) sparse mode, Source Specific Multicast (SSM), Multicast Source Discovery Protocol (MSDP), Internet Group Management Protocol Versions 2, and 3 (IGMP v2, and v3), and Multicast VLAN Registration (MVR)</li> <li>• Virtual Route Forwarding (VRF): VRF-lite (IP VPN); VRF-aware unicast; and BGP-, OSPF-, RIP-, and VRF-aware multicast</li> <li>• Unicast Reverse Path Forwarding (uRPF) with ACL; strict and loose modes</li> <li>• Jumbo frame support (up to 9216 bytes)</li> <li>• Support for up to 16 fabric extender on each Nexus 5500 with L3 modules</li> <li>• RFC 896</li> </ul>
<p>QoS</p>	<ul style="list-style-type: none"> <li>• Layer 2 IEEE 802.1p (CoS)</li> <li>• 8 hardware queues per port</li> <li>• Per-port QoS configuration</li> <li>• CoS trust</li> <li>• Port-based CoS assignment</li> <li>• Modular QoS CLI (MQC) compliance - IPv4 and IPv6</li> <li>• ACL-based QoS classification (Layers 2, 3, and 4)</li> <li>• MQC CoS marking</li> <li>• Per-port virtual output queuing</li> <li>• CoS-based egress queuing</li> <li>• Egress strict-priority queuing</li> <li>• Egress port-based scheduling: Weighted Round-Robin (WRR)</li> <li>• Control Plan Policing (CoPP) - IPv4 and IPv6</li> </ul>

Security	<ul style="list-style-type: none"> <li>• Ingress ACLs (standard and extended) on Ethernet and virtual Ethernet ports</li> <li>• Standard and extended Layer 2 ACLs: MAC addresses, protocol type, etc.</li> <li>• Standard and extended Layer 3 to 4 ACLs: IPv4 and IPv6, Internet Control Message Protocol (ICMP and ICMPv6), TCP, User Datagram Protocol (UDP), etc.</li> <li>• VLAN-based ACLs (VACLs)</li> <li>• Port-based ACLs (PACLs)</li> <li>• Named ACLs</li> <li>• Optimized ACL distribution</li> <li>• ACLs on virtual terminals (VTYs)</li> <li>• ACL logging on management interface</li> <li>• Dynamic Host Configuration Protocol (DHCP) snooping with Option 82</li> <li>• Dynamic Address Resolution Protocol (ARP) Inspection</li> <li>• IP source guard</li> <li>• DHCP relay</li> <li>• Cisco CTS (Authentication and Policy download from ACS)</li> <li>• Ethernet Port Security</li> <li>• IPv6 RACL</li> <li>• IPv6 PAACL</li> <li>• IPv6 VACL</li> </ul>
High-Availability Features	<ul style="list-style-type: none"> <li>• In-Service Software Upgrade (ISSU) for Layer 2</li> <li>• Hot-swappable field-replaceable power supplies, fan modules, and expansion modules</li> <li>• 1:1 power redundancy</li> <li>• N:1 fan module redundancy</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Switch management using 10/100/1000-Mbps management or console ports</li> <li>• CLI-based console to provide detailed out-of-band management</li> <li>• In-band switch management</li> <li>• Locator and beacon LEDs on Cisco Nexus 2000 Series</li> <li>• Port-based locator and beacon LEDs</li> <li>• Configuration synchronization</li> <li>• Module preprovisioning</li> <li>• Configuration rollback</li> <li>• Secure Shell Version 2 (SSHv2)</li> <li>• Telnet</li> <li>• AAA</li> <li>• AAA with RBAC</li> <li>• RADIUS</li> <li>• TACACS+</li> <li>• Syslog (8 servers)</li> <li>• Embedded packet analyzer</li> <li>• SNMPv1, v2, and v3 (IPv4 &amp; IPv6)</li> <li>• Enhanced SNMP MIB support</li> <li>• XML (NETCONF) support</li> <li>• Remote monitoring (RMON)</li> <li>• Advanced Encryption Standard (AES) for management traffic</li> <li>• Unified username and passwords across CLI and SNMP</li> <li>• Microsoft Challenge Handshake Authentication Protocol (MS-CHAP)</li> <li>• Digital certificates for management between switch and RADIUS server</li> <li>• Cisco Discovery Protocol Versions 1 and 2</li> <li>• RBAC</li> <li>• Switched Port Analyzer (SPAN) on physical, port channel, VLAN, and Fibre Channel interfaces</li> <li>• Encapsulated Remote SPAN (ERSPAN)</li> <li>• Ingress and egress packet counters per interface</li> <li>• Network Time Protocol (NTP)</li> <li>• Cisco GOLD</li> <li>• Comprehensive bootup diagnostic tests</li> <li>• Call Home</li> <li>• Smart Call Home</li> <li>• Cisco Fabric Manager</li> <li>• Cisco DCNM</li> <li>• CiscoWorks LAN Management Solution (LMS)</li> </ul>
Data Center Bridging	<ul style="list-style-type: none"> <li>• CEE- and IEEE-compliant PFC (per-priority Pause frame support)</li> <li>• PFC link distance support: 3000m</li> <li>• CEE-compliant DCBX Protocol</li> <li>• CEE- and IEEE-compliant Enhanced Transmission Selection</li> </ul>

<p>Fibre Channel and FCoE Features (Requires Storage Services License)</p>	<ul style="list-style-type: none"> <li>• T11 standards-compliant FCoE (FC-BB-5)</li> <li>• T11 FCoE Initialization Protocol (FIP) (FC-BB-5)</li> <li>• Any 10 Gigabit Ethernet port configurable as FCoE</li> <li>• SAN administration separate from LAN administration</li> <li>• FCP</li> <li>• Fibre Channel forwarding (FCF)</li> <li>• Fibre Channel standard port types: E, F, and NP</li> <li>• Fibre Channel enhanced port types: VE, TE, and VF</li> <li>• F-port trunking</li> <li>• F-port channeling</li> <li>• Direct attachment of FCoE and Fibre Channel targets</li> <li>• Up to 240 buffer credits per native Fibre Channel port</li> <li>• Up to 32 VSANs per switch</li> <li>• Fibre Channel (SAN) port channel</li> <li>• Native Interop Mode 1</li> <li>• Native Interop Mode 2</li> <li>• Native Interop Mode 3</li> <li>• Native Interop Mode 4</li> <li>• VSAN trunking</li> <li>• Fabric Device Management Interface (FDMI)</li> <li>• Fibre Channel ID (FCID) persistence</li> <li>• Distributed device alias services</li> <li>• In-order delivery</li> <li>• Port tracking</li> <li>• Cisco N-Port Virtualization (NPV) technology</li> <li>• N-port identifier virtualization (NPIV)</li> <li>• Fabric services: Name server, registered state change notification (RSCN), login services, and name-server zoning</li> <li>• Per-VSAN fabric services</li> <li>• Cisco Fabric Services</li> <li>• Diffie-Hellman Challenge Handshake Authentication Protocol (DH-CHAP) and Fibre Channel Security Protocol (FC-SP)</li> <li>• Distributed device alias services</li> <li>• Host-to-switch and switch-to-switch FC-SP authentication</li> <li>• Fabric Shortest Path First (FSPF)</li> <li>• Fabric binding for Fibre Channel</li> <li>• Standard zoning</li> <li>• Port security</li> <li>• Domain and port</li> <li>• Enhanced zoning</li> <li>• SAN port channels</li> <li>• Cisco Fabric Analyzer</li> <li>• Fibre Channel traceroute</li> <li>• Fibre Channel ping</li> <li>• Fibre Channel debugging</li> <li>• Cisco Fabric Manager support</li> <li>• Storage Management Initiative Specification (SMI-S)</li> <li>• Boot from SAN over VPC/EVPC</li> </ul>
<p>Generic MIBs</p>	<ul style="list-style-type: none"> <li>• SNMPv2-SMI</li> <li>• CISCO-SMI</li> <li>• SNMPv2-TM</li> <li>• SNMPv2-TC</li> <li>• IANA-ADDRESS-FAMILY-NUMBERS-MIB</li> <li>• IANAifType-MIB</li> <li>• IANAiprouteprotocol-MIB</li> <li>• HCNM-TC</li> <li>• CISCO-TC</li> <li>• SNMPv2-MIB</li> <li>• SNMP-COMMUNITY-MIB</li> <li>• SNMP-FRAMEWORK-MIB</li> <li>• SNMP-NOTIFICATION-MIB</li> <li>• SNMP-TARGET-MIB</li> <li>• SNMP-USER-BASED-SM-MIB</li> <li>• SNMP-VIEW-BASED-ACM-MIB</li> <li>• CISCO-SNMP-VACM-EXT-MIB</li> </ul>
<p>Layer 3 MIBs</p>	<ul style="list-style-type: none"> <li>• UDP-MIB</li> <li>• TCP-MIB</li> <li>• OSPF-MIB</li> <li>• BGP4-MIB</li> <li>• CISCO-HSRP-MIB</li> </ul>

Fibre Channel MIBs	<ul style="list-style-type: none"> <li>• CISCO-ST-TC</li> <li>• CISCO-FC-FE-MIB</li> <li>• CISCO-FCSP-MIB</li> <li>• CISCO-PORT-TRACK-MIB</li> <li>• CISCO-PSM-MIB</li> <li>• CISCO-FC-SPAN-MIB</li> <li>• CISCO-PORT-CHANNEL-MIB</li> <li>• CISCO-RSCN-MIB</li> <li>• CISCO-NS-MIB</li> <li>• CISCO-FCS-MIB</li> <li>• CISCO-DM-MIB</li> <li>• FIBRE-CHANNEL-FE-MIB</li> <li>• CISCO-FC-ROUTE-MIB</li> <li>• CISCO-FSPF-MIB</li> <li>• CISCO-ZS-MIB</li> <li>• CISCO-ZS-EXT-MIB</li> <li>• CISCO-VSAN-MIB</li> <li>• CISCO-CFS-MIB</li> <li>• CISCO-FCPING-MIB</li> <li>• CISCO-FCTRACEROUTE-MIB</li> <li>• CISCO-FDMI-MIB</li> <li>• CISCO-FC-DEVICE-ALIAS-MIB</li> <li>• CISCO-WWNMGR-MIB</li> <li>• FCMGMT-MIB</li> <li>• CISCO-VEDM-MIB</li> <li>• CISCO-FCOE-MIB</li> </ul>
Ethernet MIBs	<ul style="list-style-type: none"> <li>• CISCO-VLAN-MEMBERSHIP-MIB</li> <li>• CISCO-Virtual-Interface-MIB</li> </ul>
Configuration MIBs	<ul style="list-style-type: none"> <li>• ENTITY-MIB</li> <li>• IF-MIB</li> <li>• CISCO-ENTITY-EXT-MIB</li> <li>• CISCO-ENTITY-FRU-CONTROL-MIB</li> <li>• CISCO-ENTITY-SENSOR-MIB</li> <li>• CISCO-FLASH-MIB</li> <li>• CISCO-SYSTEM-MIB</li> <li>• CISCO-SYSTEM-EXT-MIB</li> <li>• CISCO-IP-IF-MIB</li> <li>• CISCO-IF-EXTENSION-MIB</li> <li>• CISCO-SERVER-INTERFACE-MIB</li> <li>• CISCO-NTP-MIB</li> <li>• CISCO-IMAGE-MIB</li> <li>• CISCO-IMAGE-CHECK-MIB</li> <li>• CISCO-IMAGE-UPGRADE-MIB</li> <li>• CISCO-CONFIG-COPY-MIB</li> <li>• CISCO-ENTITY-VENDORTYPE-OID-MIB</li> <li>• CISCO-BRIDGE-MIB</li> </ul>
Monitoring MIBs	<ul style="list-style-type: none"> <li>• DIFFSERV-DSCP-TC</li> <li>• NOTIFICATION-LOG-MIB</li> <li>• DIFFSERV-MIB</li> <li>• CISCO-CALLHOME-MIB</li> <li>• CISCO-SYSLOG-EXT-MIB</li> <li>• CISCO-PROCESS-MIB</li> <li>• RMON-MIB</li> <li>• CISCO-RMON-CONFIG-MIB</li> <li>• CISCO-HC-ALARM-MIB</li> </ul>
Security MIBs	<ul style="list-style-type: none"> <li>• CISCO-AAA-SERVER-MIB</li> <li>• CISCO-AAA-SERVER-EXT-MIB</li> <li>• CISCO-COMMON-ROLES-MIB</li> <li>• CISCO-COMMON-MGMT-MIB</li> <li>• CISCO-RADIUS-MIB</li> <li>• CISCO-SECURE-SHELL-MIB</li> <li>• TCP/IP MIBs</li> <li>• INET-ADDRESS-MIB</li> <li>• TCP-MIB</li> <li>• CISCO-TCP-MIB</li> <li>• UDP-MIB</li> <li>• IP-MIB</li> <li>• CISCO-IP-PROTOCOL-FILTER-MIB</li> <li>• CISCO-DNS-CLIENT-MIB</li> <li>• CISCO-PORTSECURITY- MIB</li> </ul>

Miscellaneous MIBs	<ul style="list-style-type: none"> <li>• START-MIB</li> <li>• CISCO-LICENSE-MGR-MIB</li> <li>• CISCO-FEATURE-CONTROL-MIB</li> <li>• CISCO-CDP-MIB</li> <li>• CISCO-RF-MIB</li> <li>• CISCO-ETHERNET-FABRIC-EXTENDER-MIB</li> <li>• CISCO-BRIDGE-MIB</li> </ul>
Industry Standards	<ul style="list-style-type: none"> <li>• IEEE 802.1D: Spanning Tree Protocol</li> <li>• IEEE 802.1p: CoS prioritization</li> <li>• IEEE 802.1Q: VLAN tagging</li> <li>• IEEE 802.1Qaz: Enhanced transmission selection</li> <li>• IEEE 802.1Qbb: Per-priority Pause</li> <li>• IEEE 802.1s: Multiple VLAN instances of Spanning Tree Protocol</li> <li>• IEEE 802.1w: Rapid reconfiguration of Spanning Tree Protocol</li> <li>• IEEE 802.3: Ethernet</li> <li>• IEEE 802.3ad: LACP with fast timers</li> <li>• IEEE 802.3ae: 10 Gigabit Ethernet</li> <li>• SFF 8431 SFP+ CX1 support</li> <li>• RMON</li> <li>• IEEE 1588-2008: Precision Time Protocol (Boundary Clock)</li> </ul>
Fibre Channel Standards	<ul style="list-style-type: none"> <li>• FC-PH, Revision 4.3 (ANSI/INCITS 230-1994)</li> <li>• FC-PH, Amendment 1 (ANSI/INCITS 230-1994/AM1 1996)</li> <li>• FC-PH, Amendment 2 (ANSI/INCITS 230-1994/AM2-1999)</li> <li>• FC-PH-2, Revision 7.4 (ANSI/INCITS 297-1997)</li> <li>• FC-PH-3, Revision 9.4 (ANSI/INCITS 303-1998)</li> <li>• FC-PI, Revision 13 (ANSI/INCITS 352-2002)</li> <li>• FC-PI-2, Revision 10 (ANSI/INCITS 404-2006)</li> <li>• FC-PI-4, Revision 7.0</li> <li>• FC-FS, Revision 1.9 (ANSI/INCITS 373-2003)</li> <li>• FC-FS-2, Revision 0.91</li> <li>• FC-LS, Revision 1.2</li> <li>• FC-SW-2, Revision 5.3 (ANSI/INCITS 355-2001)</li> <li>• FC-SW-3, Revision 6.6 (ANSI/INCITS 384-2004)</li> <li>• FC-GS-3, Revision 7.01 (ANSI/INCITS 348-2001)</li> <li>• FC-GS-4, Revision 7.91 (ANSI/INCITS 387-2004)</li> <li>• FC-BB-5, Revision 2.0 for FCoE</li> <li>• FCP, Revision 12 (ANSI/INCITS 269-1996)</li> <li>• FCP-2, Revision 8 (ANSI/INCITS 350-2003)</li> <li>• FCP-3, Revision 4 (ANSI/INCITS 416-2006)</li> <li>• FC-MI, Revision 1.92 (INCITS TR-30-2002, except for FL-ports and Class 2)</li> <li>• FC-MI-2, Revision 2.6 (INCITS TR-39-2005, except for FL-ports and Class 2)</li> <li>• FC-SP, Revision 1.6</li> <li>• FC-DA, Revision 3.1 (INCITS TR-36-2004, except for FL-ports, SB-ports and Class 2)</li> <li>• Class of Service: Class 3, Class F</li> <li>• Fibre Channel standard port types: E and F</li> <li>• Fibre Channel enhanced port types: SD and TE</li> </ul>

### Physical Specifications

SFP+ Optics	<p>Cisco Nexus 5500 platform supports 10 Gigabit Ethernet SFP+ copper Twinax cables for short distances and SFP+ optics (10GBASE-SR, 10GBASE-LR, 10GBASE-ER, GLC-ZX-SM and Cisco Nexus 2000 Series Fabric Extender Transceiver [FET-10G]) for longer distances. SFP+ has several advantages compared to other 10 Gigabit Ethernet connectivity options:</p> <ul style="list-style-type: none"> <li>• Small 10 Gigabit Ethernet form factor</li> <li>• Optical interoperability with XENPAK, X2, and XFP interface types</li> <li>• Low power consumption</li> <li>• Hot-swappable device</li> </ul> <p>•Cisco Nexus 5500 platform products support 8-Gbps Fibre Channel-compatible SFP+ for native Fibre Channel connectivity options; 8-Gbps Fibre Channel-compatible short-reach and 10-km long-reach SFP transceiver modules operate at 8/4/2 Gbps and are supported in the 8-Gbps-capable native Fibre Channel ports on expansion modules and unified ports</p>
Physical (height x width x depth)	3.47 x 17.3 x 29.5 in. (8.8 x 43.9 x 74.9 cm)
Operating temperature	32 to 104°F (0 to 40°C)
Nonoperating (storage) temperature	-40 to 158°F (-40 to 70°C)
Humidity	5 to 95% (noncondensing)

Altitude	0 to 10,000 ft (0 to 3000m)
Weight	47.5 lb (21.55 kg)

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