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## Overview

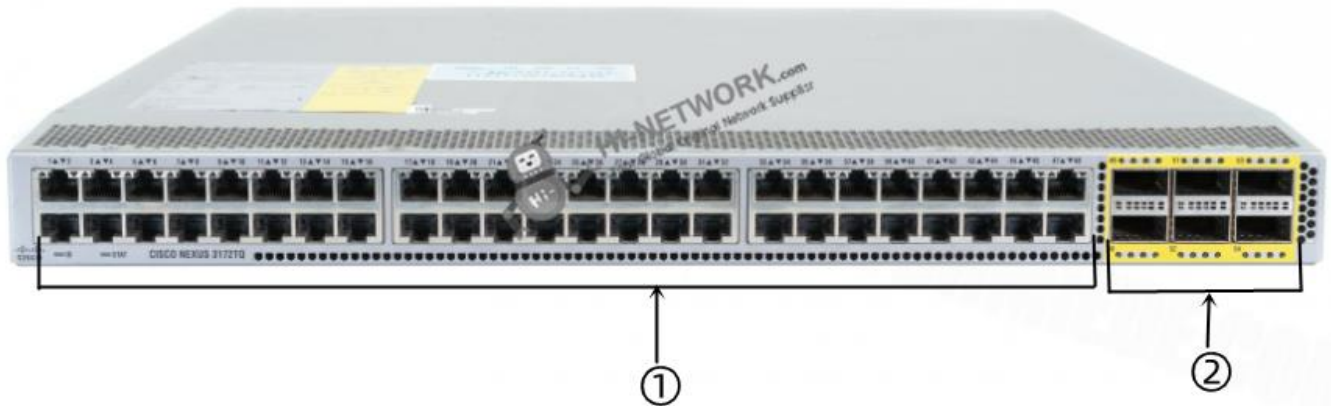
The Cisco Nexus 3172TQ-XL (N3K-C3172TQ-XL) is a 1 rack unit (RU) switch with 8GB of RAM and dual-core 2.5GHz x86 CPUs and 10GBASE-T with 48 10GBASE-T RJ-45 ports (each port can operate at 100-Mbps and 1-Gbps speeds) and 6 Quad SFP+ (QSFP+) ports (each QSFP+ port can support 4 x 10 Gigabit Ethernet or 40 Gigabit Ethernet). The Cisco Nexus 3172TQ-XL is a minor hardware revision of the Cisco Nexus 3172TQ respectively. Enhancements include an additional 4 GB of memory (for a total of 8 GB). The additional memory allows users to perform object-model programming.

## Quick Specification

Product Code	N3K-C3172TQ-XL
Enclosure Type	1 RU
Switching Capacity	1.4-Tbps
Forwarding rate	Up to 1 bpps
Configurable maximum transmission units (MTUs)	up to 9216 bytes (jumbo frames)
Ports	48 x 10GBase-T RJ-45 and 6 QSFP+ ports
System Memory	8 GB
Number of power supplies	2
Typical operating power	360 W
Dimension (height x width x depth)	4.4 x 43.9 x 50.5 cm
Net Weight	10 Kg

## Product Details:

### The Front Panel:



①	48 x 10GBase-T RJ-45
②	6 x QSFP+ ports

The N3K-C3172TQ-XL also has 1 management port, 1 console port, 4 fan modules and 1 USB port and support both port-side exhaust and port-side intake airflow schemes. It requires one AC or DC power supply for operations, but can has a second power supply for redundancy.

## The Accessories

### Modules and Cables:

Models	Description
L-N3K-LAN1K9=	Nexus 3000 LAN Enterprise License, eDelivery
<a href="#">GLC-SX-MMD</a>	Cisco GLC-SX-MMD 1000BASE-SX SFP transceiver module, MMF, 850nm, DOM
<a href="#">GLC-LH-SMD</a>	Cisco GLC-LH-SMD 1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM
SFP-10G-SR	10GBASE-SR SFP Module
<a href="#">SFP-H10GB-CU1M</a>	Cisco Direct-Attach Twinax Copper Cable Assembly with SFP+ Connectors SFP-H10GB-CU1M
<a href="#">SFP-H10GB-CU5M</a>	SFP-H10GB-CU5M,5M Passive Copper Twinax Cable F, Nexus,24AWG cable assembly
QSFP-H40G-CU5M	Cisco QSFP to QSFP copper direct-attach 40GBASE-CR4 cable QSFP-H40G-CU5M
<a href="#">QSFP-40G-LR4</a>	40GBase-LR4 Optical Transceiver,QSFP+,40GE,Single-mode Module(1310nm,10km,LC)

## Compare to Similar Items

Product Code	<a href="#">N3K-C3172TQ-32T</a>	<a href="#">N3K-C3172TQ-XL</a>
Enclosure Type	1 RU	1 RU
Switching Capacity	1.4-Tbps	1.4-Tbps
Forwarding rate	Up to 1 bpps	Up to 1 bpps
Configurable maximum transmission units (MTUs)	up to 9216 bytes (jumbo frames)	Up to 9216 bytes (jumbo frames)
Ports	32 x 10GBase-T RJ-45 and 6 QSFP+ ports	48 x 10GBase-T RJ-45 and 6 x QSFP+ ports
Dimensions (H x W x D)	4.4 x 43.9 x 50.5 cm	4.4 x 43.9 x 50.5 cm

Get more information:

Do you have any question about the N3K-C3172TQ-XL?

Contact us now via e-mail: [info@hi-network.com](mailto:info@hi-network.com)

## Specific Data Sheet:

Type	N3K-C3172TQ-XL
Physical	<p>1RU fixed form factor</p> <p>72 x 10 Gigabit Ethernet ports (32 10GBASE-T and 6 QSFP+)</p> <p>48 RJ-45 ports support 100 Mbps and 1 and 10 Gigabit Ethernet</p> <p>6 QSFP ports support 4 x 10 Gigabit Ethernet or 40 Gigabit Ethernet each</p> <p>Redundant fans (3+1)</p> <p>2 redundant power supplies</p> <p>Management, console, and USB flash-memory ports</p>
Performance	<p>1.4-Tbps switching capacity</p> <p>Forwarding rate of up to 1 bpps</p> <p>Line-rate traffic throughput (both Layer 2 and 3) on all ports</p> <p>Configurable maximum transmission units (MTUs) of up to 9216 bytes (jumbo frames)</p>
MAC addresses	288,000
Number of VLANs	4096
Spanning-tree instances	<p>RSTP: 512</p> <p>MSTP: 64</p>
ACL entries	<p>4000 ingress</p> <p>1000 egress</p>
Routing table	<p>16,000 prefixes and 16,000 host entries</p> <p>8000 multicast routes</p>
Number of EtherChannels	64 (with vPC)
Number of ports per EtherChannel	32
System memory	8 GB

# N3K-C3172TQ-XL Datasheet



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Buffer size	12 MB shared
Boot flash memory	16 GB
Number of power supplies	2
Power supply types	AC (forward and reversed airflow) - N2200-PAC-400W and N2200-PAC-400W-B (PQ models) - NXA-PAC-500W and NX-PAC-500W-B (TQ models) DC (forward and reversed airflow) - N2200-PDC-400W and N3K-PDC-350W-B (PQ models) - NXA-PDC-500W and NX-PDC-500W-B (TQ models)
Typical operating power	360W
Maximum power	440W
AC PSUs	
Input voltage	100 to 240 VAC
Frequency	50 to 60 Hz
Efficiency	89 to 91% at 220V
DC PSUs	
Input voltage	-40 to -72 VDC
Maximum current	33A (400W unit), 42A (500W unit)
Efficiency	85 to 88%
Typical heat dissipation	1228 BTU/hr
Maximum heat dissipation	1501 BTU/hr
Cooling	Forward and reversed airflow schemes Forward airflow: Port-side exhaust (air enters through fan-tray and power supplies and exits through ports) Reversed airflow: Port-side intake (air enters through ports and exits through fan tray and power supplies) Single fan tray with redundant fans Hot swappable (must swap within 1 minute)
Measured sound power (maximum)	
Fan speed: 40% duty cycle	64.9 dBA
Fan speed: 60% duty cycle	69.3 dBA
Fan speed: 100% duty cycle	76.7 dBA
Dimensions (height x width x depth)	1.72 x 17.3 x 19.7 in. (4.4 x 43.9 x 50.5 cm)
Weight	22.0 lb (10 kg)
Operating temperature	32 to 104°F (0 to 40°C)
Storage temperature	-40 to 158°F (-40 to 70°C)
Operating relative humidity	10 to 85% noncondensing Up to 5 days at maximum (85%) humidity Recommend ASHRAE data center environment
Storage relative humidity	5 to 95% noncondensing
Altitude	0 to 10,000 ft (0 to 3000m)
Regulatory compliance	Products should comply with CE Markings per directives 2004/108/EC and 2006/95/EC.
Safety	UL 60950-1 Second Edition





	<p>CAN/CSA-C22.2 No. 60950-1 Second Edition</p> <p>EN 60950-1 Second Edition</p> <p>IEC 60950-1 Second Edition</p> <p>AS/NZS 60950-1</p> <p>GB4943</p>		
EMC: Emissions	<p>47CFR Part 15 (CFR 47) Class A</p> <p>AS/NZS CISPR22 Class A</p> <p>CISPR22 Class A</p> <p>EN55022 Class A</p> <p>ICES003 Class A</p> <p>VCCI Class A</p> <p>EN61000-3-2</p> <p>EN61000-3-3</p> <p>KN22 Class A</p> <p>CNS13438 Class A</p>		
EMC: Immunity	<p>EN55024</p> <p>CISPR24</p> <p>EN300386</p> <p>KN24</p>		
RoHS	RoHS 5 compliant except for lead press-fit connectors		
MIB Support	<table border="0"> <tr> <td> <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>• HCNUM-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> <li>• MAU-MIB</li> <li>• CISCO-SWITCH-QOS-MIB</li> <li>• CISCO-CLASS-BASED-QOS- MIB</li> </ul> <p>Ethernet MIBs</p> <ul style="list-style-type: none"> <li>• CISCO-VLAN-MEMBERSHIP- MIB</li> <li>• LLDP-MIB</li> <li>• IP-MULTICAST-MIB</li> </ul> </td> <td> <p>Monitoring MIBs</p> <ul style="list-style-type: none"> <li>• NOTIFICATION-LOG-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> <p>Security MIBs</p> <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-SECURE-SHELL-MIB</li> </ul> <p>Miscellaneous MIBs</p> <ul style="list-style-type: none"> <li>• CISCO-LICENSE-MGR-MIB</li> <li>• CISCO-FEATURE-CONTROL-MIB</li> <li>• CISCO-CDP-MIB</li> <li>• CISCO-RF-MIB</li> </ul> <p>Layer 3 and Routing 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> </td> </tr> </table>	<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>• HCNUM-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> <li>• MAU-MIB</li> <li>• CISCO-SWITCH-QOS-MIB</li> <li>• CISCO-CLASS-BASED-QOS- MIB</li> </ul> <p>Ethernet MIBs</p> <ul style="list-style-type: none"> <li>• CISCO-VLAN-MEMBERSHIP- MIB</li> <li>• LLDP-MIB</li> <li>• IP-MULTICAST-MIB</li> </ul>	<p>Monitoring MIBs</p> <ul style="list-style-type: none"> <li>• NOTIFICATION-LOG-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> <p>Security MIBs</p> <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-SECURE-SHELL-MIB</li> </ul> <p>Miscellaneous MIBs</p> <ul style="list-style-type: none"> <li>• CISCO-LICENSE-MGR-MIB</li> <li>• CISCO-FEATURE-CONTROL-MIB</li> <li>• CISCO-CDP-MIB</li> <li>• CISCO-RF-MIB</li> </ul> <p>Layer 3 and Routing 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>
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	<p>Configuration MIBs</p> <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-SYSTEM-MIB</li> <li>• CISCO-SYSTEM-EXT-MIB</li> <li>• CISCO-IP-IF-MIB</li> <li>• CISCO-IF-EXTENSION-MIB</li> <li>• CISCO-NTP-MIB</li> <li>• CISCO-VTP-MIB</li> <li>• CISCO-IMAGE-MIB</li> <li>• CISCO-IMAGE-UPGRADE-MIB</li> </ul>
Standards	<p>IEEE 802.1D: Spanning Tree Protocol</p> <ul style="list-style-type: none"> <li>• IEEE 802.1p: CoS Prioritization</li> <li>• IEEE 802.1Q: VLAN Tagging</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 802.3z: Gigabit Ethernet</li> <li>• IEEE 802.3ad: Link Aggregation Control Protocol (LACP)</li> <li>• IEEE 802.3ae: 10 Gigabit Ethernet (Cisco Nexus 3064-X)</li> <li>• IEEE 802.3ba: 40 Gigabit Ethernet</li> <li>• IEEE 802.3an: 10GBASE-T (Cisco Nexus 3064-T)</li> <li>• IEEE 802.1ab: LLDP</li> <li>• IEEE 1588-2008: Precision Time Protocol (Boundary Clock)</li> </ul>
RFC	<p>BGP</p> <ul style="list-style-type: none"> <li>• RFC 1997: BGP Communities Attribute</li> <li>• RFC 2385: Protection of BGP Sessions with the TCP MD5 Signature Option</li> <li>• RFC 2439: BGP Route Flap Damping</li> <li>• RFC 2519: Framework for Interdomain Route Aggregation</li> <li>• RFC 2545: Use of BGPv4 Multiprotocol Extensions</li> <li>• RFC 2858: Multiprotocol Extensions for BGPv4</li> <li>• RFC 3065: Autonomous System Confederations for BGP</li> <li>• RFC 3392: Capabilities Advertisement with BGPv4</li> <li>• RFC 4271: BGPv4</li> <li>• RFC 4273: BGPv4 MIB: Definitions of Managed Objects for BGPv4</li> <li>• RFC 4456: BGP Route Reflection</li> <li>• RFC 4486: Subcodes for BGP Cease Notification Message</li> <li>• RFC 4724: Graceful Restart Mechanism for BGP</li> <li>• RFC 4893: BGP Support for 4-Octet AS Number Space</li> </ul> <p>OSPF</p> <ul style="list-style-type: none"> <li>• RFC 2328: OSPF Version 2</li> <li>• 8431 RFC 3101: OSPF Not-So-Stubby-Area (NSSA) Option</li> <li>• RFC 3137: OSPF Stub Router Advertisement</li> </ul>



	<ul style="list-style-type: none"> <li>• RFC 3509: Alternative Implementations of OSPF Area Border Routers</li> <li>• RFC 3623: Graceful OSPF Restart</li> <li>• RFC 4750: OSPF Version 2 MIB</li> </ul> <p>RIP</p> <ul style="list-style-type: none"> <li>• RFC 1724: RIPv2 MIB Extension</li> <li>• RFC 2082: RIPv2 MD5 Authentication</li> <li>• RFC 2453: RIP Version 2</li> </ul> <p>IP Services</p> <ul style="list-style-type: none"> <li>• RFC 768: UDP</li> <li>• RFC 783: Trivial File Transfer Protocol (TFTP)</li> <li>• RFC 791: IP</li> <li>• RFC 792: ICMP</li> <li>• RFC 793: TCP</li> <li>• RFC 826: ARP</li> <li>• RFC 854: Telnet</li> <li>• RFC 959: FTP</li> <li>• RFC 1027: Proxy ARP</li> <li>• RFC 1305: Network Time Protocol (NTP) Version 3</li> <li>• RFC 1519: Classless Interdomain Routing (CIDR)</li> <li>• RFC 1542: BootP Relay</li> <li>• RFC 1591: Domain Name System (DNS) Client</li> <li>• RFC 1812: IPv4 Routers</li> <li>• RFC 2131: DHCP Helper</li> <li>• RFC 2338: VRRP</li> </ul> <p>IP Multicast</p> <ul style="list-style-type: none"> <li>• RFC 2236: IGMPv2</li> <li>• RFC 3376: IGMPv3</li> <li>• RFC 3446: Anycast Rendezvous Point Mechanism Using PIM and MSDP</li> <li>• RFC 3569: Overview of SSM</li> <li>• RFC 3618: MSDP</li> <li>• RFC 4601: PIM-SM: Protocol Specification (Revised)</li> <li>• RFC 4607: SSM for IP</li> <li>• RFC 4610: Anycast-RP using PIM</li> <li>• RFC 5132: IP Multicast MIB</li> </ul>
<p>Layer 2</p>	<p>Layer 2 switch ports and VLAN trunks</p> <ul style="list-style-type: none"> <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>• 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 32 ports per EtherChannel)</li> <li>• LACP: IEEE 802.3ad</li> <li>• Advanced port-channel hashing based on Layer 2, 3, and 4 information</li> <li>• vPC</li> </ul>



	<ul style="list-style-type: none"> <li>• Jumbo frames on all ports (up to 9216 bytes)</li> <li>• Storm control (unicast, multicast, and broadcast)</li> <li>• Private VLANs</li> <li>• NvGRE entropy</li> <li>• Resilient hashing</li> </ul>
<p>Layer 3</p>	<p>Layer 3 interfaces: Routed ports on interfaces, switch virtual interfaces (SVIs), port channels, and subinterfaces (total: 1024)</p> <ul style="list-style-type: none"> <li>• 64-way ECMP</li> <li>• 4000 ingress and 1000 egress ACL entries</li> <li>• IPv6 routing: Static, OSPFv3, and BGPv6</li> <li>• Routing protocols: Static, RIPv2, EIGRP, OSPF, and BGP</li> <li>• Bidirectional Flow Detection (BFD) for BGP, OSPF, and IPv4 static routes</li> <li>• HSRP and VRRP</li> <li>• ACL: Routed ACL with Layer 3 and 4 options to match ingress and egress ACLs</li> <li>• VRF: VRF-lite (IP VPN), VRF-aware unicast (BGP, OSPF, and 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>• Generic Routing Encapsulation (GRE) tunneling</li> <li>• Advanced BGP features including BGP add-path for eBGP and iBGP, remove-private-as enhancements and eBGP next hop unchanged</li> <li>• IP-in-IP Tunnel support</li> </ul>
<p>Multicast</p>	<p>Multicast: PIMv2, PIM-SM, and PIM-SSM</p> <ul style="list-style-type: none"> <li>• Bootstrap router (BSR), Auto-RP, and Static RP</li> <li>• MSDP and Anycast RP</li> <li>• Internet Group Management Protocol (IGMP) Versions 2 and 3</li> </ul>
<p>Quality of Service (QoS)</p>	<p>Layer 2 IEEE 802.1p (class of service [CoS])</p> <ul style="list-style-type: none"> <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</li> <li>• ACL-based QoS classification (Layers 2, 3, and 4)</li> <li>• MQC CoS marking</li> <li>• Differentiated services code point (DSCP) marking</li> <li>• Weighted Random Early Detection (WRED)</li> <li>• CoS-based egress queuing</li> <li>• Egress strict-priority queuing</li> <li>• Egress port-based scheduling: Weighted Round-Robin (WRR)</li> <li>• Explicit Congestion Notification (ECN)</li> <li>• Configurable ECN marking per port</li> <li>• Priority Flow Control (with 3 no-drop queues and 1 default queue with strict priority scheduling between queues)</li> <li>• Policy Based Routing (PBR)</li> </ul>



<p>Security</p>	<p>Ingress ACLs (standard and extended) on Ethernet</p> <ul style="list-style-type: none"> <li>• Standard and extended Layer 3 and 4 ACLs include IPv4, Internet Control Message Protocol (ICMP), TCP, and User Datagram Protocol (UDP)</li> <li>• VLAN-based ACLs (VACLs)</li> <li>• Port-based ACLs (PACLs)</li> <li>• Named ACLs</li> <li>• ACLs on virtual terminals (vty)</li> <li>• DHCP snooping with Option 82</li> <li>• Port number in DHCP Option 82</li> <li>• DHCP relay</li> <li>• Dynamic Address Resolution Protocol (ARP) inspection</li> <li>• Configurable CoPP</li> <li>• SPAN with ACL filtering</li> </ul>
<p>Cisco Nexus Data Broker</p>	<p>Topology support for TAP and SPAN aggregation</p> <ul style="list-style-type: none"> <li>• Support for QinQ to tag input source TAP and SPAN ports</li> <li>• Configuration of symmetric hashing to load-balance traffic to multiple tools</li> <li>• Traffic filtering based on Layer 1 through Layer 4 header information</li> <li>• Traffic replication and forwarding to multiple monitoring tools</li> <li>• Robust RBAC</li> <li>• Northbound representational state transfer (REST) API for all programmability support</li> </ul>
<p>Management</p>	<p>POAP</p> <ul style="list-style-type: none"> <li>• Python scripting</li> <li>• Cisco EEM</li> <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</li> <li>• Configuration rollback</li> <li>• SSHv2</li> <li>• Secure Copy (SCP) server</li> <li>• Telnet</li> <li>• AAA</li> <li>• AAA with RBAC</li> <li>• RADIUS</li> <li>• TACACS+</li> <li>• Syslog</li> <li>• Syslog generation on system resources (for example, FIB tables)</li> <li>• Embedded packet analyzer</li> <li>• SNMP v1, v2, and v3</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> </ul>

- Digital certificates for management between switch and RADIUS server
- Cisco Discovery Protocol Versions 1 and 2
- RBAC
- SPAN on physical layer, port channel, and VLAN
- Tunable buffer allocation for SPAN
- Encapsulated Remote SPAN (ERSPAN)
- Ingress and egress packet counters per interface
- PTP (IEEE 1588) boundary clock
- Network Time Protocol (NTP)
- Cisco OHMS
- Comprehensive bootup diagnostic tests
- Cisco Call Home
- Cisco DCNM
- Advanced buffer utilization monitoring
- sFlow

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