Tel: +44 (0)1279 408 777
Email: sales@gocomsys.com
Website: www.gocomsys.com

Refurbished CISCO N3K-C3132Q-X-FA-L3 Datasheet

CISCO > SWITCHES

Cisco Nexus 3000 Series Switches

Benefits of Cisco NX-OS Software

Feature	Benefit
Common software throughout the data center: NX-OS runs on all Cisco data center switch platforms (Cisco Nexus 9000, 7000, 6000, 5000, 4000, and 3000 Series Switches, Cisco Nexus 1000V Switches, and Cisco Nexus 2000 Series Fabric Extenders).	Simplification of data center operating environment End-to-end Cisco Nexus and NX-OS fabric No retraining necessary for data center engineering and operations teams
Software compatibility: NX-OS interoperates with Cisco products running any variant of Cisco IOS Software and also with any networking OS that conforms to the networking standards listed as supported in this data sheet.	Transparent operation with existing network infrastructure Open standards No compatibility concerns
Modular software design: NX-OS is designed to support distributed multithreaded processing. NX-OS modular processes are instantiated on demand, each in a separate protected memory space. Thus, processes are started and system resources allocated only when a feature is enabled. A real-time preemptive scheduler that helps ensure timely processing of critical functions governs the modular processes.	Robust software Fault tolerance Increased scalability Increased network availability
Troubleshooting and diagnostics: NX-OS is built with unique serviceability functions to enable network operators to take early action based on network trends and events, enhancing network planning and improving network operations center (NOC) and vendor response times. Cisco Smart Call Home and Cisco Online Health Management System (OHMS) are some of the features that enhance the serviceability of NX-OS.	Quick problem isolation and resolution Continuous system monitoring and proactive notifications Improved productivity of operations teams
Ease of management: NX-OS provides a programmatic XML interface based on the NETCONF industry standard. The NX-OS XML interface provides a consistent API for devices. NX-OS also provides support for Simple Network Management Protocol (SNMP) Versions 1, 2, and 3 MIBs. In addition Cisco NX-API and Linux Bash are now supported.	Rapid development and creation of tools for enhanced management Comprehensive SNMP MIB support for efficient remote monitoring
Role-based access control (RBAC): With RBAC, NX-OS enables administrators to limit access to switch operations by assigning roles to users. Administrators can customize access and restrict it to the users who require it.	Tight access control mechanism based on user roles Improved network device security Reduction in network problems arising from human errors

Cisco NX-OS Software Packages Available for the Cisco Nexus 3132Q, 3132Q-X, and 3132Q-XL

Software Package	Features Supported
System default: Base license (N3K-BAS1K9) included; no purchase necessary	Comprehensive Layer 2 feature set: VLAN, IEEE 802.1Q Trunking, vPC, Link Aggregation Control Protocol (LACP), Unidirectional Link Detection (UDLD; standard and aggressive), Multiple Spanning Tree Protocol (MSTP), Rapid Spanning Tree Protocol (RSTP), spanning-tree guards, and Transparent VLAN Trunk Protocol (TVTP) Security: Authentication, authorization, and accounting (AAA); access control lists (ACLs); Dynamic Host Configuration Protocol (DHCP) snooping; storm control; private VLAN (PVLAN); and configurable Control-Plane Policing (CoPP) Management features: Cisco Data Center Network Manager (DCNM) support, console, Secure Shell Version 2 (SSHv2) access, Cisco Discovery Protocol, SNMP, and syslog Layer 3 IP routing: inter-VLAN routing (IVR), static routes, RIPv2, ACLs, OSPFv2, EIGRP stub, Hot Standby Router Protocol (HSRP), Virtual Router Redundancy Protocol (VRRP), and Unicast Reverse-Path Forwarding (uRPF) Multicast: PIM SM, SSM, and MSDP
LAN Enterprise license (N3K-LAN1K9)	Advanced Layer 3 IP routing: BGP, and Virtual Route Forwarding lite (VRF-lite) VXLAN Policy-Based Routing (PBR)

Software Features

Description

Description	Specification
Layer 2	Layer 2 switch ports and VLAN trunks IEEE 802.1Q VLAN encapsulation Support for up to 4096 VLANs Rapid Per-VLAN Spanning Tree Plus (PVRST+) (IEEE 802.1w compatible) MSTP (IEEE 802.1s): 64 instances Spanning Tree PortFast Spanning Tree Root Guard Spanning Tree Bridge Assurance Cisco EtherChannel technology (up to 16 ports per EtherChannel) LACP: IEEE 802.3ad vPC Advanced port-channel hashing based on Layer 2, 3, and 4 information Jumbo frames on all ports (up to 9216 bytes) Storm control (unicast, multicast, and broadcast) Private VLANs NVGRE entropy Resilient hashing
Layer 3	Layer 3 interfaces: Routed ports on interfaces, switch virtual interfaces (SVIs), port channels, and subinterfaces (total: 1024) 64-way ECMP 4000 ingress and 1000 egress ACL entries Routing protocols: Static, RIPv2, EIGRP, OSPFv2, and BGP Bidirectional Flow Detection (BFD) for BGP HSRP and VRRP ACL: Routed ACL with Layer 3 and 4 options to match ingress and egress ACLs VRF: VRF-lite (IP VPN), VRF-aware unicast (BGP, OSPF, and RIP), and VRF-aware multicast uRPF with ACL; strict and loose modes Jumbo frame support (up to 9216 bytes) Advanced BGP features including BGP add-path for eBGP and iBGP, remove-private-as enhancements, and eBGP next-hop unchanged IP-in-IP tunnel support VXLAN
Multicast	Multicast: PIMv2, PIM-SM, and PIM-SSM Bootstrap router (BSR), Automatic Rendezvous Point (Auto-RP), and Static RP MSDP and Anycast RP Internet Group Management Protocol (IGMP) Versions 2 and 3
Quality of service (QoS)	Layer 2 IEEE 802.1p (class of service [CoS]) 8 unicast and 8 multicast hardware queues per port Per-port QoS configuration CoS trust Port-based CoS assignment Modular QoS CLI (MQC) compliance ACL-based QoS classification (Layers 2, 3, and 4) MQC CoS marking Differentiated services code point (DSCP) marking Weighted Random Early Detection (WRED) CoS-based egress queuing Egress strict-priority queuing

	Egress port-based scheduling: Weighted Round-Robin (WRR) Explicit Congestion Notification (ECN) Priority Flow Control (with 3 no-drop queues and 1 default queue with strict priority scheduling between queues PBR
Security	Ingress ACLs (standard and extended) on Ethernet Standard and extended Layer 3 to 4 ACLs: IPv4, Internet Control Message Protocol (ICMP), TCP, User Datagram Protocol (UDP), etc. VLAN-based ACLs (VACLs) Port-based ACLs (PACLs) Named ACLs ACLs on virtual terminals (vtys) DHCP snooping with Option 82 Port number in DHCP Option 82 DHCP relay Dynamic Address Resolution Protocol (ARP) inspection Configurable CoPP Switched Port Analyzer (SPAN) with ACL filtering
Management	Switch management using 10/100/1000-Mbps management or console ports CLI-based console to provide detailed out-of-band management In-band switch management Locator and beacon LEDs Port-based locator and beacon LEDs Configurable CoPP Configuration rollback SSHv2 Telnet AAA AAA with RBAC RADIUS TACACS+ Syslog Syslog generation on system resources (for example, FIB tables) Embedded packet analyzer SNMP v1, v2, and v3 Enhanced SNMP MIB support XML (NETCONF) support Remote monitoring (RMON) Advanced Encryption Standard (AES) for management traffic Unified username and passwords across CLI and SNMP Microsoft Challenge Handshake Authentication Protocol (MS-CHAP) Digital certificates for management between switch and RADIUS server Cisco Discovery Protocol Versions 1 and 2 RBAC Cisco SPAN on physical, port-channel, VLAN, and Fibre Channel interfaces 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 monitoring Linux Bash Cisco NX-API

Regulatory Standards Compliance: Safety and EMC

Specification	
Regulatory compliance	Products should comply with CE Markings per directives 2004/108/EC and 2006/95/EC
Safety	UL 60950-1 Second Edition CAN/CSA-C22.2 No. 60950-1 Second Edition EN 60950-1 Second Edition IEC 60950-1 Second Edition AS/NZS 60950-1 GB4943
EMC: Emissions	47CFR Part 15 (CFR 47) Class A AS/NZS CISPR22 Class A CISPR22 Class A EN55022 Class A ICES003 Class A VCCI Class A EN61000-3-2 EN61000-3-3

	KN22 Class A CNS13438 Class A
EMC: Immunity	EN55024 CISPR24 EN300386 KN24

The next steps...

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Tel: +44 (0)1279 408 777

Email: sales@gocomsys.com

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