



Cisco Nexus 3164Q Switch — READ ME FIRST

[Cisco Nexus 3164Q Switch — READ ME FIRST](#) 2

[Software Differences](#) 2

[User Documentation](#) 3

[Obtaining Documentation and Submitting a Service Request](#) 4

Revised: February 20, 2015,

Cisco Nexus 3164Q Switch — READ ME FIRST

The Cisco Nexus 3164Q switch runs Cisco Nexus 9000 Series switch software, starting with Cisco NX-OS Release 6.1(2)I2(2a). Therefore, it shares many of the same user documents with the Cisco Nexus 9000 Series switches.

This document lists the user documentation that applies to the Cisco Nexus 3164Q switch and explains any software differences between this device and the Cisco Nexus 9000 Series switches. To find a document online, use one of the links in this document.



Note Unless otherwise noted, the user documentation for the Cisco Nexus 3000 Series and 3100 Series switches does not apply to the Cisco Nexus 3164Q switch.

Software Differences

The Cisco Nexus 3164Q switch and the Cisco Nexus 9000 Series switches run the same software and support most of the same features. The software differences between the two platforms are as follows:

- Software license—The Cisco Nexus 3164Q switch uses the N3K-LAN1K9 software license rather than the Cisco Nexus 9000 Series software license. See the [Cisco NX-OS Licensing Guide](#) for details.
- MIB support list—The Cisco Nexus 3164Q switch supports the same MIBs as the Cisco Nexus 9000 Series switches, but the Cisco Nexus 3164Q switch uses a different MIB support list. The Cisco Nexus 3164Q MIB support list is available at the following FTP site: <ftp://ftp.cisco.com/pub/mibs/supportlists/nexus3164/Nexus3164MIBSupportList.html>.
- Verified scalability numbers—The Cisco Nexus 3164Q switch and the Cisco Nexus 9000 Series switches have been verified for use with different scalability limits. See the [Cisco Nexus 3164Q NX-OS Verified Scalability Guide](#) for the verified limits.
- 40GE to 4x10GE breakout support—The Cisco Nexus 3164Q switch supports breakout interfaces beginning with Cisco NX-OS Release 6.1(2)I2(2b). The **interface breakout module** command splits each of the Cisco Nexus 3164Q switch's 64 40G interfaces into 4 10G interfaces, for a total of 256 10G interfaces. After you enter this command, you must copy the running configuration to the startup configuration and reload the device. Breakout support for Cisco NX-OS Releases prior to 7.0(3)I1(1) is at the module level, applying to all ports of the module. Beginning with Cisco NX-OS Release 7.0(3)I1(1), you can break out any number of ports.
- Cisco NX-OS to ACI Conversion—You can convert a Cisco Nexus 9000 Series switch from Cisco NX-OS to ACI boot mode, but you cannot convert a Cisco Nexus 3164Q switch to ACI boot mode. The 3164Q operates only in Cisco NX-OS mode.
- Designated router delay—This PIM multicast feature, which delays participation in the election of a new designated router (DR) by setting the DR priority that is advertised in PIM hello messages to 0, is supported only for the Cisco Nexus 9000 Series switches. It is not supported on the Cisco Nexus 3164Q switch.
- ERSPAN—ERSPAN sessions on the Cisco Nexus 3164Q switch or the Cisco Nexus 9500 Series switches do not support ERSPANv2 or ERSPANv3 headers in spanned copy. Cisco Nexus 9300 Series switches support ERSPANv2 and ERSPANv3 headers but only for sessions with 40G uplink SPAN destinations.
- FEX—The Cisco Nexus 2000 Series Fabric Extender (FEX) is supported for use with the Cisco Nexus 9372PX and 9396PX switches but not with the Cisco Nexus 3164Q switch.
- SPAN—The Cisco Nexus 3164Q switch and the Cisco Nexus 9500 Series switches support SPAN in the transmit direction on 40G uplink ports. The Cisco Nexus 9300 Series switches do not.

- System routing modes—While the Cisco Nexus 9500 Series switches support the default system routing mode, the max-host routing mode, the nonhierarchical routing mode, and the 64-bit algorithmic longest prefix match (ALPM) routing mode and the Cisco Nexus 9300 Series switches support the default system routing mode and the ALPM routing mode, the Cisco Nexus 3164Q switch supports only the default system routing mode. See the [Cisco Nexus 9000 Series NX-OS Unicast Routing Configuration Guide](#) for more information.
- VXLAN routing and VXLAN bud node—The Cisco Nexus 3164Q switch and the Cisco Nexus 9300 Series switches support VXLAN. However, the 3164Q switch does not support the VXLAN routing and VXLAN bud node features introduced in Cisco NX-OS Release 7.0(3)I1(1).

User Documentation

Release Notes

Use the following documents to get the most current information about the Cisco NX-OS software for the Cisco Nexus 3164Q switch:

- [Cisco Nexus 9000 Series NX-OS Release Notes](#), for Cisco NX-OS Release 6.1(2)I2(2a) or a later release
- [Cisco Nexus 9000 Series FPGA/EPLD Upgrade Release Notes](#), for Cisco NX-OS Release 6.1(2)I2(2a) or a later release

Getting Started Information

Use the following documents to plan for and install your Cisco Nexus 3164Q switch:

- [Cisco Nexus 3000 Series Hardware Installation Guide](#)

Cisco NX-OS Configuration Information

Use the following documents to configure the Cisco Nexus 3164Q switch using Cisco NX-OS Release 6.1(2)I2(2a) or a later release:

- [Cisco Nexus 3164Q NX-OS Verified Scalability Guide](#), for Cisco NX-OS Release 6.1(2)I2(2a) or a later release
- [Cisco Nexus 9000 Series NX-OS Fundamentals Configuration Guide](#)
- [Cisco Nexus 9000 Series NX-OS Interfaces Configuration Guide](#)
- [Cisco Nexus 9000 Series NX-OS Layer 2 Switching Configuration Guide](#)
- [Cisco Nexus 9000 Series NX-OS Multicast Routing Configuration Guide](#)
- [Cisco Nexus 9000 Series NX-OS Quality of Service Configuration Guide](#)
- [Cisco Nexus 9000 Series NX-OS Security Configuration Guide](#)
- [Cisco Nexus 9000 Series NX-OS System Management Configuration Guide](#)
- [Cisco Nexus 9000 Series NX-OS Unicast Routing Configuration Guide](#)
- [Cisco Nexus 9000 Series NX-OS Virtual Machine Tracker Configuration Guide](#)
- [Cisco Nexus 9000 Series NX-OS VXLAN Configuration Guide](#)

Programming Information

Use the following documents to program the Cisco Nexus 3164Q switch using Cisco NX-OS Release 6.1(2)I2(2a) or a later release:

- [Cisco Nexus 9000 Series NX-OS Programmability Guide](#)
- [Cisco NX-OS XML Interface User Guide](#)

Additional Information

Use the following documents to get additional information for the Cisco Nexus 3164Q switch:

- [Cisco NX-OS Licensing Guide](#)
- [Cisco Nexus 9000 Series NX-OS Troubleshooting Guide](#)
- [Cisco Nexus 9000 Series NX-OS System Messages Reference](#), for Cisco NX-OS Release 6.1(2)I2(2a) or a later release

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>

Subscribe to *What's New in Cisco Product Documentation*, which lists all new and revised Cisco technical documentation as an RSS feed and delivers content directly to your desktop using a reader application. The RSS feeds are a free service.

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: <http://www.cisco.com/go/trademarks>. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

© 2014-2015 Cisco Systems, Inc. All rights reserved.



Americas Headquarters
Cisco Systems, Inc.
San Jose, CA 95134-1706
USA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV
Amsterdam, The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.