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4655 Great America Parkway
Santa Clara, CA 95054

Important Information about the 8600 Series Switch Modules



NORTEL

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- EMC - Electromagnetic Immunity – CISPR 24
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Warning: This is a Class A product. In a domestic environment, this product may cause radio interference, in which case, the user may be required to take appropriate measures.

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This is to certify that the Nortel Networks 8000 Series chassis is shielded against the susceptibility to radio interference in accordance with the application of Council Directive 89/336/EEC. Conformity is declared by the application of EN 55 024 (CISPR 24).

EC Declaration of Conformity

This product conforms to the provisions of the R&TTE Directive 1999/5/EC.

VCCI statement (Japan/Nippon only)

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI) for information technology equipment. If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

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警告使用者：

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

MIC notice for 8010, 8006, 8003 chassis (Republic of Korea only)

This device has been approved for use in Business applications only per the Class A requirements of the Republic of Korea Ministry of Information and Communications (MIC). This device may not be sold for use in a non-business application.



명 칭 (모 델 명) : Switch (Passport 8600)
인 증 번 호 : E-E011-02-0015 (A)
인증받은자의상호 : Nortel Networks Ltd.
제 조 일 : 별도표기
제 조 자(제 조 국) : Nortel Networks Ltd.(미국)

National safety statements of compliance

CE marking statement (Europe only)

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This is to certify that the Nortel Networks 8000 Series chassis and components installed within the chassis are in compliance with the requirements of EN 60 950 in accordance with the Low Voltage Directive. Additional national differences for all European Union countries have been evaluated for compliance. Some components installed within the 8000 Series chassis may use a nickel-metal hydride (NiMH) and/or lithium-ion battery. The NiMH and lithium-ion batteries are long-life batteries, and it is very possible that you will never need to replace them. However, should you need to replace them, refer to the individual component manual for directions on replacement and disposal of the battery.

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Input:	(8006 and 8010 Chassis only) 100 to 240 VAC, 50 to 60 Hz, 12 A max. per power supply -48 to -60 VDC, 29 A max. per power supply single supply, two supplies, or two supplies + one redundant supply configurations

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Col. San Jose Insurgentes
Deleg-Benito Juarez
México D.F. 03900

Tel: 52 5 480 2100

Fax: 52 5 480 2199

Embarcar a: (8003 Chassis)

100 to 240 V CA, 50 to 60 Hz, 9 A max. por fuente de poder
una fuente o una + configuraciones de una fuente redundante

Embarcar a: (8006 and 8010 Chassis)

100 to 240 V CA, 50 to 60 Hz, 12 A max. por fuente de poder
-48 to -60 V CD, 29 A max. por fuente de poder
una fuente, dos fuentes o dos + configuraciones de una fuente redundante

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Introduction

This document discusses the following topics:

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- [“Determining hardware and software compatibility” on page 12](#)
- [“Locating your software” on page 17](#)
- [“Reading path” on page 18](#)
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The information in this document is current up to Passport 8000 Series Switch Software Release 3.7.6. Always look for the most current revisions of any documentation by following the instructions described in [“Reading path” on page 18](#).

Important notice about apparent module failure

To prevent apparent failures of properly functioning modules after you install the modules in a chassis, make sure you securely tighten all the module retaining screws to ensure a good connection between the module and the backplane.

If a module failure occurs, check for possible backplane connection problems as a cause. Make sure the module is correctly seated in the backplane connector and the retaining screws are securely tightened. If the module still fails to operate, contact Nortel Networks™ customer support for assistance.

Determining hardware and software compatibility

The matrix below describes your hardware and the minimum Passport 8000 Series Switch software version required to support the hardware.

Chassis & switching fabric		Minimum software version	Part number
8010co chassis	10-slot chassis	3.1.2	DS1402004
8010 chassis	10-slot chassis	3.0.0	DS1402001
8006 chassis	6-slot chassis	3.0.0	DS1402002
8003 chassis	3-slot chassis	3.1.2	DS1402003
8690SF	Discontinued, see 8691SF or 8692SF	3.0.0	DS1404001
8690SF/256	8690SF with 256MB SDRAM installed. Discontinued. See 8691SF or 8692SF	3.0.0	DS1404089
8691SF	Switching fabric	3.1.1	DS1404025
8691SF/256	8691SF/256 with 256 SDRAM installed	3.1.1	DS140490
8692SF	Switching fabric	3.5.6 ¹	DS1404065
Power Supplies			
8001AC	690W AC Power Supply	3.0.0	DS1405x01
8002DC	780W DC Power Supply	3.0.0	DS1405002
8003AC	500W AC Power Supply (8003 chassis only)	3.1.2	DS1405x03
8004AC	850W AC Power Supply	3.1.2	DS1405x08
8004DC	850W DC Power Supply	3.1.2	DS1405007
Upgrade Kits			
256MB CPU upgrade kit	This memory upgrade may be required for the 3.5 and 3.7 software to run properly. ²	3.5.0	DS1404016
MAC upgrade kit	Use this kit to add Media Access Control (MAC) addresses to your system. This kit is required for routed interface scaling beyond 500.	3.5.0	DS1404015

¹ The 8692SF is supported on all Passport 8600 Series Switch 3.7.x software releases.

² With the Passport 8000 Series Switch Software Release 3.5 and higher, you must upgrade the 8690SF to 256MB. Nortel Networks recommends that you upgrade the 8691SF to 256MB.

8600 modules and components		Minimum software version	Part number
Security modules			
8661SSL Acceleration Module (SAM)	High Performance SSL Acceleration Module secures web-based applications and business communications ¹	3.3.1 ²	DS1404070
8660 Service Delivery Module Firewall 1 (SDM FW1)	The 8660 SDM is a combination of dedicated hardware and software that addresses the needs for security, performance, and ease of use.	3.7.6 ³	DS1404104
8660 Service Delivery Module Firewall 2 (SDM FW2)	The 8660 SDM is a combination of dedicated hardware and software that addresses the needs for security, performance, and ease of use.	3.7.6 ³	DS1404081
8660 Service Delivery Module Firewall 4(SDM FW4)	The 8660 SDM is a combination of dedicated hardware and software that addresses the needs for security, performance, and ease of use.	3.7.6 ³	DS1404080
8660 SDM spare disk drive	Replacement part	3.7.6	DS1411023
8660 SDM spare PrPMC	Replacement part	3.7.6	DS1411024
Layer 4-7 module			
Web Switching Module (WSM)	4-Port Gigabit Ethernet SX or 10/100TX	3.1.3 ⁴	DS1404045
Ethernet modules			
8608GB module	Discontinued, see 8608GBE module	3.0.0	DS1404015
8608GT module	Discontinued, see 8608GTE module	3.1.0	DS1404012
8608SX module	Discontinued, see 8608SXE module	3.0.0	DS1404003
8624FX module	Discontinued, see 8624FXE module	3.0.0	DS1404005
8648TX module	Discontinued, see 8648TXE module	3.0.0	DS1404002
Ethernet E-modules:⁵			
8608GBE module	8-port Gigabit Ethernet GBIC	3.1.1	DS1404038
8608GTE module	8-port Gigabit Ethernet 1000TX	3.1.1	DS1404044
8608SXE module	8-port Gigabit Ethernet SX	3.1.1	DS1404036
8616SXE module	16-port Gigabit Ethernet SX	3.1.0	DS1404011
8616GTE module	16-port Gigabit Ethernet TX	3.3.0	DS1404034
8624FXE module	24-port 100FX	3.1.1	DS1404037
8648TXE module	48-port 10/100 TX	3.1.1	DS1404035

8600 modules and components (continued)		Minimum software version	Part number
8632TXE module	32-port 10/00TX (2 GBICs)	3.1.2	DS1404024
Ethernet M modules⁶			
8608GBM module	8-port Gigabit Ethernet GBIC	3.3.0	DS1404059
8608GTM module	8-port Gigabit Ethernet 1000TX	3.3.0	DS1404061
8632TXM module	32-port 10/00TX (2 GBICs)	3.3.0	DS1404055
8648TXM module	48-port 10/100 TX	3.3.0	DS1404056
10 Gigabit Ethernet M modules⁶			
8681XLW module ⁷	1-port 10 Gigabit Ethernet (1310nm WAN serial)	3.3.0	DS1404052
8681XLR module ⁷	1-port 10 Gigabit Ethernet (1310nm LAN serial)	3.3.0	DS1404053
ATM/ATME/ATMM modules			
8672ATM module	Discontinued, see 8672ATME module	3.1.0	DS1304001
8672ATME module	ATME module ⁵	3.1.1	DS1304008
8672ATMM module	ATMM module ⁶	3.3.0	DS1304009
ATM/ATME/ATMM module components⁸			
DS-3 MDA	2-port 75 ohm coaxial	3.3.0	DS1304002
OC-12c/STM-4 MDA	1-port MMF	3.1.0	DS1304004
OC-12c/STM-4 MDA	1-port SMF	3.1.0	DS1304005
OC-3c/STM-1 MDA	4-port MMF	3.1.0	DS1304006
OC-3c/STM-1 MDA	4-port SMF	3.1.0	DS1304007
POS/POSE/POSM modules			
8683POS module	Discontinued, see 8683POSM module	3.1.0	DS1404016
8683POSE module	Discontinued, see 8683POSM module	3.1.1	DS1404043
8683POSM module	M module ⁶	3.3.0	DS1404060
POS/POSE/POSM MDAs⁹			
OC-3c/STM-1 MDA	2-port MMF	3.1.0	DS1333003
OC-3c/STM-1 MDA	2-port SMF	3.1.0	DS1333004
OC-12c/STM-4 MDA	1-port MMF	3.1.0	DS1333001
OC-12c/STM-4 MDA	1-port SMF	3.1.0	DS1333002
8600 compatible GBICs¹⁰			

8600 modules and components (continued)		Minimum software version	Part number
1000BASE-SX GBIC	850 nm, short wavelength, Gigabit Ethernet	3.0.0	AA1419001
1000BASE-LX GBIC	1300 nm, long wavelength, Gigabit Ethernet	3.0.0	AA1419002
1000BASE-T GBIC	Category 5 copper unshielded twisted pair (UTP)	3.5.0	AA1419041
1000BASE-XD GBIC	50k, SC duplex SMF, Gigabit Ethernet	3.0.0	AA1419003
1000BASE-ZX GBIC	70k, SC duplex SMF, Gigabit Ethernet	3.0.0	AA1419004
Gray CWDM GBIC	Discontinued, see Gray CWDM APD GBIC	3.1.2	AA1419005
Violet CWDM GBIC	Discontinued, see Violet CWDM APD GBIC	3.1.2	AA1419006
Blue CWDM GBIC	Discontinued, see Blue CWDM APD GBIC	3.1.2	AA1419007
Green CWDM GBIC	Discontinued, see Green CWDM APD GBIC	3.1.2	AA1419008
Yellow CWDM GBIC	Discontinued, see Yellow CWDM APD GBIC	3.1.2	AA1419009
Orange CWDM GBIC	Discontinued, see Orange CWDM APD GBIC	3.1.2	AA1419010
Red CWDM GBIC	Discontinued, see Red CWDM APD GBIC	3.1.2	AA1419011
Brown CWDM GBIC	Discontinued, see Brown CWDM APD GBIC	3.1.2	AA1419012
Gray CWDM APD GBIC	1470nm	3.1.4	AA1419017
Violet CWDM APD GBIC	1490nm	3.1.4	AA1419018
Blue CWDM APD GBIC	1510nm	3.1.4	AA1419019
Green CWDM APD GBIC	1530nm	3.1.4	AA1419020
Yellow CWDM APD GBIC	1550nm	3.1.4	AA1419021
Orange CWDM APD GBIC	1570nm	3.1.4	AA1419022
Red CWDM APD GBIC	1590nm	3.1.4	AA1419023
Brown CWDM APD GBIC	1610nm	3.1.4	AA1419024

¹ The 8661 SAM is used in conjunction with the Web Switching Module to intelligently accelerate secure business communication and confidential data by off-loading Secure Sockets Layer (SSL) Processing.

16 Determining hardware and software compatibility

- 2 Passport 8000 Series Switch Software Release 3.3.1 was specifically designed to introduce the 8661 SAM module. Release 3.3.1 is the only 3.3.x release that supports the 8661 SAM module. The 8661 SAM module is supported in Release 3.5 and higher.
- 3 Passport 8000 Series Switch Software Release 3.7.6 was specifically designed to introduce the 8660 SDM.
- 4 Passport 8000 Series Switch Software Release 3.1.3 is the first and only release in the 3.1.x software branch that supports the Web Switching Module. See [Table 1](#) for compatibility between Passport 8600 Series Switch and WSM software versions.
- 5 E-modules are required to support Egress port mirroring and Enhanced Operational Mode.
- 6 M modules offer additional memory to support large routing tables such as those found in BGP implementations. The Passport 8000 Series Switch Software Release 3.3 introduced a new mode, called M Mode, or 128K records mode, which requires the 8691SF module. When enabled, this mode allows M modules to use their full capabilities (128K records). When this mode is disabled, the M modules work in 32K mode (case of non E and E modules). If the chassis includes one 8690SF module, the mode default backs to 32K mode. To be effective, this mode requires that all modules installed in the same chassis support 128K records (M modules) and that the SF/CPU are 8691SF. If one, or more modules installed in the chassis is a 32K records module (non M module), these modules will be disabled if the chassis is configured to operate in M Mode (For instructions on enabling MMode, see *Managing Platform Operations and Using Diagnostic Tools*).
- 7 Nortel Networks recommends that if you are using a 10 Gigabit Ethernet Module: 8681XLR or 8681XLW with 3.3.x software code that you upgrade to the Passport 8000 Series Switch Software Release 3.5.0 or higher.
- 8 ATM MDAs inserted into an 8672ATME module require Passport 8000 Series Switch Software Release 3.1.1 or higher. ATM MDAs inserted into a 8672ATMM module require Passport 8000 Series Switch Software Release 3.3.0 or higher.
- 9 POS MDAs inserted into a 8683POSE module require Passport 8000 Series Switch Software Release 3.1.1 or higher, and POS MDAs inserted into a 8683POSM module require Passport 8000 Series Switch Software Release 3.3.0 or higher.
- 10 Non-supported GBICs are displayed in the CLI and Device Manager as “GBIC-other.”

Table 1 Passport 8600 Series Switch and WSM software compatibility

8600 Series software version	WSM software version
3.1.3	9.0.2x.x
3.2.2	9.0.4x.x
3.3.0	10.0.27.x
3.3.1	10.0.28.x
3.5.0–3.5.7	10.0.30.7
3.5.8	10.0.32.1
3.7.0–3.7.3	10.0.30.7
3.7.4–3.7.6	10.0.32.1

Locating your software

You can obtain the Passport 8000 Series Switch Software License Kit by ordering the latest version of product number DS1410001 for the Passport 8100 and DS1410003 for the Passport 8600.

You can download the most current software image from the Nortel Networks™ customer support web site at www.nortel.com/support.

For additional information, refer to *Release Notes for the Passport 8600 Series Switch Software Release 3.7.6* (part number 217316-A).

Reading path

This section lists the documentation specific to the Passport 8000 Series Switch platform. You can find documentation on the Nortel Networks™ customer support web site at www.nortel.com/support.

If, for any reason, you cannot find a document using the above method, use the **Search** function in the top right-hand side of the web site:

- 1 Click **Search**.
The **Search** page opens.
- 2 Ensure the **Support** tab is selected on the **Search** page.
- 3 Enter the title or part number of the document in the **Search** field.
- 4 Click **Search**.

You can print the listed technical manuals and Release Notes free, directly from the Internet. Use Adobe* Acrobat Reader* to open the manuals and Release Notes, search for the sections you need, and print them on most standard printers. Go to Adobe Systems at www.adobe.com to download a free copy of the Adobe Acrobat Reader.

Books specific to 8660 SDM installation and configuration

- *Installing the 8660 Service Delivery Module (SDM) for the Passport 8600 Series Switch* (part number 217314-A)
- *Getting Started* (part number 320095-A)
- *Firewall User's Guide and Command Reference* (part number 217315-A)
- *Release Notes for the Passport 8600 Switch Series Software Release 3.7.6* (part number 217316-A)
- *System Messaging Platform Reference Guide* (part number 320094-A)
- *Installing and Using Device Manager* (part number 320096-A)
- *Important Information about the 8600 Series Switch Modules* (part number 320180-A)
- *Upgrading to Passport 8000 Series Switch Software Release 3.7.6* (part number 318843-A)

Important information and release notes

- *Important Security Information for the 8000 Series Switch* (part number 314997-C)
- *Important Information about the 8600 Series Switch Modules* (part number 320180-A)
- *Release Notes for the Passport 8600 Switch Series Software Release 3.7.6* (part number 217316-A)

Upgrading your switch

- *Upgrading to Passport 8000 Series Switch Software Release 3.7.6* (part number 318843-A)
- *Installing a CPU Memory Upgrade* (part number 314832-B)
- *Adding MAC Addresses to the Passport 8000 Series Chassis* (part number 212486-B)

Chassis and module installation

- *Installing and Maintaining the 8600 Series Chassis and Components* (part number 316314-D)
- *Installing 8600 Switch Modules* (part number 312749-H)

- *Installing the 8660 Service Delivery Module (SDM) for the Passport 8600 Series Switch* (part number 217314-A)
- *Installing the 8661 SSL Acceleration Module (SAM) for the 8600 Series Switch* (part number 316315-A)
- *Installing the Web Switching Module for Passport 8600 Series Switch* (part number 314969-B)

Solution overview

- *Using the SSL acceleration module with the Web switching module for the 8600 Series switch* (part number 316350-A)

Module configuration

- *Firewall User's Guide and Command Reference* (part number 217315-A)
- *Configuring the Web Switching Module using Device Manager (Passport 8000 Series Software Release 3.7)* (part number 314995-B)
- *Configuring the 8661 SSL Acceleration Module for the 8600 Series Switch* (part number 316351-A)
- *(Alteon) Web OS Switch Software 10.0 Application Guide* (part number 212777-A)
- *(Alteon) Web OS Switch Software 10.0 Command Reference* (part number 212778-A)

Engineering notes

- *Deviating from the Passport 8600 and Web Switching Module (WSM) Factory Defaults* (part number 316436-A)
- *Configuring Basic Server Load Balancing (SLB) with a Passport 8600 Web Switching Module (WSM)* (part number 316434-A)
- *Understanding the Passport 8600 & Web Switching Module (WSM)* (part number 316437-A)
- *Getting Started with a Web Switching Module for the Passport 8600* (part number 316435-A)

Related publications

This section describes common documentation related to the Passport 8000 Series Switch.

Tools

- *System Messaging Platform Reference Guide* (part number 320094-A)
- *Using the Packet Capture Tool* (part number 315023-C)

Hardware

- *Installing the Breaker Interface Panel for the 8010co Chassis* (part number 312755-E)
- *Installing 8600 Switch Modules* (part number 312749-H)
- *Installing Media Dependent Adapters for the 8683POSM Module* (part number 313072-B)
- *Installing Media Dependent Adapters for the 8672ATME and 8672ATMM Modules* (part number 313071-B)
- *Installing a DC Power Supply in an 8000 Series Switch* (part number 313070-C)
- *Installing an AC Power Supply in an 8000 Series Switch* (part number 312751-C)
- *Installing a Fan Tray in an 8000 Series Switch* (part number 312752-C)
- *Installing Gigabit Interface Converters* (part number 316342-A)
- *Installing Media Dependent Adapters (MDAs)* (part number 302403-G)
- *Installation and Networking Guidelines for Optical Routing* (part number 212257-B)
- *Replacing an Air Filter in the 8010co Chassis* (part number 313592-C)

Software

- *Getting Started* (part number 320095-A)
- *Configuring and Managing Security* (part number 314724-C)
- *Managing Platform Operations* (part number 315545-C)
- *Installing and Using Device Manager* (part number 320096-A)
- *Configuring Network Management* (part number 314723-C)

- *Configuring QoS and IP Filtering* (part number 316433-C)
- *Configuring IP Routing Operations* (part number 314720-D)
- *Configuring VLANs, Spanning Tree, and Link Aggregation* (part number 314725-C)
- *Configuring BGP Services* (part number 314721-C)
- *Configuring IP Multicast Routing Protocols* (part number 314719-C)
- *Configuring Internet membership Group Authentication Protocol (IGMP)* (part number 316343-B)
- *Configuring IPX Routing Operations* (part number 314722-B)
- *Network Design Guidelines* (part number 313197-D)
- *Using Diagnostic Tools* (part number 317359-A)
- *Using the 10 Gigabit Ethernet Modules: 8681XLR and 8681XLW* (part number 315893-C)
- *Using the 8672ATME and 8672ATMM Modules* (part number 209195-E)
- *Using the 8683POSM Module* (part number 209564-B)

How to get help

If you purchased a service contract for your Nortel Networks product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller for assistance.

If you purchased a Nortel Networks service program, contact Nortel Networks Technical Support. To obtain contact information online, go to the www.nortel.com/contactus URL, then click Technical Support.

Additional information about the Nortel Networks Technical Solutions Centers is available from the www.nortel.com/callus URL.

An Express Routing Code (ERC) is available for many Nortel Networks products and services. When you use an ERC, your call is routed to a technical support person who specializes in supporting that product or service. To locate an ERC for your product or service, go to www.nortel.com/erc.

