



ExtremeXOS Hardware/ Software Compatibility and Recommendation Matrices

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Preface

Audience

This guide is intended for use by network administrators responsible for installing and setting up network equipment. It assumes a basic working knowledge of:

- Local area networks (LANs)
- Ethernet concepts
- Ethernet switching and bridging concepts
- Routing concepts
- Simple Network Management Protocol (SNMP)
- Basic equipment installation procedures

See the *ExtremeXOS User Guide* and the *ExtremeXOS Command Reference Guide* for information about configuring Extreme Networks Summit family switches.



Note

If the information in an installation note or release note shipped with your Extreme Networks equipment differs from the information in this guide, follow the installation or release note.

Conventions

This section discusses the conventions used in this guide.

Text Conventions

The following tables list text conventions that are used throughout this guide.

Table 1: Notice Icons





Icon	Notice Type	Alerts you to...
	Note	Important features or instructions.
	Caution	Risk of personal injury, system damage, or loss of data.
	Warning	Risk of severe personal injury.
	New	This command or section is new for this release.

Table 2: Text Conventions

Convention	Description
Screen displays	This typeface indicates command syntax, or represents information as it appears on the screen.
The words enter and type	When you see the word “enter” in this guide, you must type something, and then press the Return or Enter key. Do not press the Return or Enter key when an instruction simply says “type.”
[Key] names	Key names are written with brackets, such as [Return] or [Esc]. If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press [Ctrl]+[Alt]+[Del]
Words in italicized type	Italics emphasize a point or denote new terms at the place where they are defined in the text. Italics are also used when referring to publication titles.

Platform-Dependent Conventions

Unless otherwise noted, all information applies to all platforms supported by ExtremeXOS software, which are the following:

- BlackDiamond® X series switch
- BlackDiamond 8800 series switches
- Cell Site Routers (E4G-200 and E4G-400)
- Summit® family switches
- SummitStack™

When a feature or feature implementation applies to specific platforms, the specific platform is noted in the heading for the section describing that implementation in the ExtremeXOS command documentation. In many cases, although the command is available on all platforms, each platform uses specific keywords. These keywords specific to each platform are shown in the Syntax Description and discussed in the Usage Guidelines.

Terminology

When features, functionality, or operation is specific to a switch family, the family name is used. Explanations about features and operations that are the same across all product families simply refer to the product as the “switch.”

Extreme Networks Publications

General

Documentation for BlackDiamond Series, E4G, ExtremeXOS, Summit Series, and Ridgeline is available at: www.extremenetworks.com/documentation

Documentation for IdentiFi, NetSight, S/K/7100-Series, SecureStack, Purview, and IPS/SIEM is available at: <https://extranet.extremenetworks.com/downloads/>

Open Source Declaration

Some ExtremeXOS software files have been licensed under certain open source licenses. Information is available at: www.extremenetworks.com/services/osl-exos.aspx

Providing Feedback to Us

We are always striving to improve our documentation and help you work better, so we want to hear from you! We welcome all feedback but especially want to know about:

- Content errors or confusing or conflicting information.
- Ideas for improvements to our documentation so you can find the information you need faster.
- Broken links or usability issues.

If you would like to provide feedback to the Extreme Networks Information Development team about this document, please contact us using our short [online feedback form](#). You can also email us directly at InternalInfoDev@extremenetworks.com.

1 ExtremeXOS Hardware/Software Compatibility and Recommendation Matrices

Component Support
SFP, SFP+, and QSFP+ Support
XENPAK Module Support
XFP Module Support
CFP2 Module Support

This document provides information about the minimum version of ExtremeXOS® software required to support BlackDiamond® and Summit® switches, E4G series routers, and pluggable interfaces such as SFP, XENPAK, and XFP optical modules.

For products no longer supported, this document also lists the highest version of ExtremeXOS software that can be installed.

Component Support

BlackDiamond Chassis and Modules

Table 3: BlackDiamond 8800 Series Component Support

BlackDiamond 8800 Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
MSM-48	11.6.1.9	1.0.1.11	12.5.x
MSM-G8X	11.6.1.9	1.0.1.11	12.5.x
MSM-48c	12.1.1.4	1.0.3.7	
8500-MSM24	12.3.1	1.0.4.2	15.7.1
8500-G48T-e	12.3.1	1.0.4.0	15.7.1
8500-G24X-e	12.3.1	1.0.4.0	15.7.1
8900-MSM128	12.3.1	1.0.4.2	
8900-10G24X-c	12.3.1	1.0.1.0	
8900-G96T-c	12.3.2	1.0.1.0	
8900-G48X-xl	12.4.1	1.0.1.2	
8900-G48T-xl	12.4.1	1.0.1.2	
8900-10G8X-xl	12.4.1	1.0.1.2	

Table 3: BlackDiamond 8800 Series Component Support (continued)

BlackDiamond 8800 Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
8900-40G6X-xm	12.6.1	1.0.1.2	
G48T	11.5.1.4	1.0.1.10	12.4.x
G48Te	11.5.1.4	1.0.1.10	15.1.x
G48P	11.5.1.4	1.0.1.10	12.4.x
G48Pe	11.5.1.4	1.0.1.10	15.1.x
G48Ta	11.5.1.4	1.0.1.10	15.1.x
G48Xa	11.5.1.4	1.0.1.10	15.1.x
G48Tc	12.1.1.4	1.0.3.7	
G48Te2	12.1.1.4	1.0.3.7	
G48Xc	12.1.1.4	1.0.3.7	
G24X	12.1.1.4	1.0.3.7	12.4.x
G24Xc	12.1.1.4	1.0.3.7	
S-G8Xc	12.1.1.4	1.0.3.7	
S-10G2Xc	12.6.1	1.0.1.2	
10G4X	11.6.1.9	1.0.1.11	12.4.x
10G4Xa	11.6.1.9	1.0.1.11	15.1.x
10G4Ca	12.0.1.11	1.0.1.11	15.1.x
10G4Xc	12.1.1.4	1.0.3.7	
10G8Xc	12.1.1.4	1.0.3.7	
S-10G1Xc	12.1.1.4	1.0.3.7	
PSU Controller	11.1.1.9	2.13	
700/1200 W AC PSU (Model # 60020/PS 2336)	11.1.1.9	N/A	
600/900 W AC PSU (Model # 41050/PS 2431) (BlackDiamond 8806 only)	11.6.1.9	N/A	
1200 W DC PSU (Model # 60021/PS 2350)	11.3.2.6	N/A	

Note



Upgrading the BootROM on a BlackDiamond 8810 or BlackDiamond 8806 switch is not automatic when software is upgraded. The user must be running the minimum required BootROM version or later. Use the `install firmware` command after upgrading the EXOS image to ensure that the BootROM is at the latest level.



Table 4: BlackDiamond X Series Component Support

BlackDiamond X Series Component	Minimum EXOS Software Version	Minimum BootROM Version
BDX-MM1	15.1.1	1.0.0.3
BDXA-FM10T	15.1.1	1.0.0.6
BDXA-FM20T	15.1.1	1.0.0.6
BDXA-G48X	16.1.1	1.0.0.12
BDXA-G48T	16.1.1	1.0.0.12
BDXA-10G48X	15.1.1	1.0.0.6
BDXA-10G48T	15.3.1	1.0.0.11
BDXA-40G12X	15.1.1	1.0.0.6
BDXB-40G12X-XL	16.1.1	1.0.0.12
BDXA-40G24X	15.1.1	1.0.0.6
BDXB-100G4X	15.5.1	1.0.0.12
BDXB-100G4X-XL	15.7.1	1.0.0.12
AC Power Supply (Model # 48011)	15.1.1	N/A

Table 5: BlackDiamond 10808 Series Component Support

BlackDiamond 10808 Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
MSM-1	10.1.0	1.0.1.5	15.1.x
MSM-1XL	10.1.0	1.0.1.5	15.1.x
10G2H	11.2.0	1.3.0.0	15.1.x
10G2X	11.1.1	1.3.0.0	15.1.x
10G6X	10.1.0	1.3.0.0	15.1.x
G20X	11.1.1	1.3.0.0	15.1.x
G60T	10.1.0	1.3.0.0	15.1.x
G60X	10.1.0	1.3.0.0	15.1.x
PSU Controller	10.1.0	N/A	
700/1200 W AC PSU (Model # 60020/PS 2336)	10.1.0	N/A	
1200 W DC PSU (Model # 60021/PS 2350)	11.3.2.6	N/A	



Table 6: BlackDiamond 10808 modules with the Rev. D ASIC component support

I/O Module	8000 Level Part No.	9000 Level Part No.	Minimum EXOS Software Version	Last Supported EXOS Software Version
G60T	804403-00 after Rev. 16	904015-00	11.2.1.3	15.1.x
	804408-00 after Rev. 03	904015-10	11.2.1.3	15.1.x
G60X	804402-00 after Rev. 16	904009-00/11	11.2.1.3	15.1.x
	804404-00 after Rev. 03	904009-10	11.2.1.3	15.1.x
G20X	804407-00 after Rev. 03	904020-10	11.2.1.3	15.1.x
	804470-00 after Rev. 08	904020-00/11	11.2.1.3	15.1.x
10G2X	804410-00 after Rev. 03	904032-10	11.2.1.3	15.1.x
	804471-00 after Rev. 11	904032-00/11	11.2.1.3	15.1.x
10G2H	804406-00, after Rev. 09	904027-00/11	11.2.1.3	15.1.x
	804411-00 after Rev. 03	904027-10	11.2.1.3	15.1.x
10G6X	804405-00 after Rev. 18	904016-00/11	11.2.1.3	15.1.x
	804409-00 after Rev. 03	904016-10	11.2.1.3	15.1.x

Table 7: BlackDiamond 12800 Series Component support

BlackDiamond 12800 Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
MSM-5 (BlackDiamond 12804)	11.4.1.4	1.0.0.2	15.1.x
MSM-5 (BlackDiamond 12802)	12.0.1.11	1.0.0.2	15.1.x
MSM-5R (BlackDiamond 12802)	12.0.1.11	1.0.0.2	15.1.x
MSM-5R (BlackDiamond 12804)	11.4.1.4	1.0.0.2	15.1.x
MSM-6R	12.0.2.25	1.0.1.8	15.1.x
XM-2X	12.2.2	N/A	15.1.x
XM-2HR	12.1.1.4	N/A	15.1.x
XM-2XR	11.4.1.4	N/A	15.1.x



Table 7: BlackDiamond 12800 Series Component support (continued)

BlackDiamond 12800 Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
GM-20T	11.4.1.4	N/A	15.1.x
GM-20XT	11.4.1.4	N/A	15.1.x
GM-20XTR	11.4.1.4	N/A	15.1.x
PSU Controller	11.4.1.4	N/A	15.1.x
700/1200 W AC PSU (Model # 60020/PS 2336)	11.4.1.4	N/A	15.1.x
1200 W DC PSU (Model # 60021/PS 2350)	11.4.1.4	N/A	15.1.x

Table 8: BlackDiamond 20800 I/O Modules support

BlackDiamond 20800 Series Component	Minimum EXOS Software Version	Firmware Version Required with EXOS 12.5.1	Last Supported EXOS Software Version
GM-40X	12.3.2		15.1.x
HM-2X24GA	12.5.1		15.1.x
XM-8X	12.3.2		15.1.x
XFM-1 (shown as Fabric-1 through Fabric-5) (BlackDiamond 20808)	12.3.2		15.1.x
XFM-2 (shown as Fabric-1 through Fabric-5) (BlackDiamond 20804)	12.4.1		15.1.x
MM Basic	12.3.2		15.1.x
Fan Tray (BlackDiamond 20808)	12.3.2		15.1.x
Fan Tray (BlackDiamond 20804)	12.4.1		15.1.x

Note



Use the `check firmware version` command to verify that all components on the BlackDiamond 20800 series switches (I/O modules, fans, and so on) are running the latest version of EXOS firmware. If the command output shows that one or more components are not running the latest firmware, use the `install firmware` command to update all down level components. Be sure to run the `show slot`, `show fans`, `show power`, and `show fabric` commands to verify that all components are installed and operational before attempting to upgrade or downgrade the switch firmware.



Summit Series Switches and Components

Table 9: Summit X150 Series Switches Component Support

Summit X150 Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
Summit X150-24t switch	12.0.2.25	1.0.3.1	15.3.x
Summit X150-48t switch	12.0.2.25	1.0.3.1	15.3.x
Summit X150-24p switch	12.0.2.25	1.0.3.1	15.3.x

Table 10: Summit X250e Series Switches Component Support

Summit X250e Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
Summit X250e-24p switch	12.0.1.11	1.0.3.0	15.3.x
Summit X250e-48p switch	12.0.1.11	1.0.3.0	15.3.x
Summit X250e-24t switch	12.0.1.11	1.0.3.0	15.3.x
Summit X250e-48t switch	12.0.1.11	1.0.3.0	15.3.x
Summit X250e-24x switch	12.0.2.25	1.0.3.1	15.3.x
Summit X250e-24tDC switch	12.0.3.16	1.0.3.1	15.3.x
Summit X250e-48tDC switch	12.0.3.16	1.0.3.1	15.3.x
Summit X250e-24xDC switch	12.0.3.16	1.0.3.1	15.3.x

Table 11: Summit X350 Series Switches Component Support

Summit X350 Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
Switch Model			
Summit X350-24t switch	12.0.3.16	1.0.3.1	15.3.x
Summit X350-48t switch	12.0.3.16	1.0.3.1	15.3.x
Option Cards			
XGM2-2bt	12.2.1	N/A	15.3.x
XGM2-2sf	12.2.1	N/A	15.3.x
XGM2-2xf	12.1.2	N/A	15.3.x
XGM2-2xn	12.1.2	N/A	15.3.x



Table 12: Summit X430 Series Switches Support

Summit X430 Series Component	Minimum EXOS Software Version	Minimum BootROM Version
X430-8p	15.5.2.9	1.0.15
X430-24t	15.3.2.4	1.0.11
X430-24p	15.5.2.9	1.0.15
X430-48t	15.3.2.4	1.0.11

Table 13: Summit X440 Series Switches Component Support

Summit X440 Series Component	Minimum EXOS Software Version	Minimum BootROM Version
Summit X440-8t switch	15.1.2	2.0.16
Summit X440-8p switch	15.1.2	2.0.16
Summit X440-24t switch	15.1.1	2.0.16
Summit X440-24tDC switch	15.3.1	2.0.17
Summit X440-L2-24t switch	15.2.1	2.0.17
Summit X440-24p switch	15.1.1	2.0.16
Summit X440-24x switch	15.3.1	2.0.17
Summit X440-24t-10G switch	15.1.2	2.0.16
Summit X440-24p-10G switch	15.1.2	2.0.16
Summit X440-24x-10G switch	15.3.1	2.0.17
Summit X440-48t switch	15.1.2	2.0.16
Summit X440-48tDC switch	15.3.1	2.0.17
Summit X440-L2-48t switch	15.2.1	2.0.17
Summit X440-48p switch	15.1.2	2.0.16
Summit X440-48t-10G switch	15.1.2	2.0.16
Summit X440-48p-10G switch	15.1.2	2.0.16

Table 14: Summit X450 Original Series Switches Component Support

Summit X450 Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
Summit X450 Series			
Summit X450-24x switch	11.6.1.9	1.0.2.2	12.4.x
Summit X450-24t switch	11.2.2.4	1.0.5.6	12.4.x
Option Cards			
XGM-2xn	11.5.1.4	N/A	12.4.x



Table 15: Summit X450a and X450e Series Switches Component Support

Summit X450a and X450e Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
Summit X450a Series			
Summit X450a-48t switch	11.5.1.4	1.0.2.2	15.3.x
Summit X450a-48tDC switch	11.6.1.9	1.0.2.2	15.3.x
Summit X450a-24t switch	11.5.1.4	1.0.2.2	15.3.x
Summit X450a-24tDC switch	11.5.1.4	1.0.2.2	15.3.x
Summit X450a-24xDC switch	11.6.1.9	1.0.2.2	15.3.x
Summit X450a-24x switch	11.6.1.9	1.0.2.2	15.3.x
Summit X450e Series			
Summit X450e-24p switch	11.5.1.4	1.0.2.2	15.3.x
Summit X450e-48p switch	11.6.1.9	1.0.2.2	15.3.x
Summit X450e-24t switch	12.5.1	1.0.5.6	15.3.x
Summit X450e-48t switch	12.5.1	1.0.5.6	15.3.x
Option Cards			
XGM2-2bt	12.2.1	N/A	15.3.x
XGM2-2sf	12.2.1	N/A	15.3.x
XGM2-2xn	11.5.1.4	N/A	15.3.x
XGM2-2xf	11.5.1.4	N/A	15.3.x

Table 16: Summit X450-G2 Series Switches Component Support

Summit X450-G2 Series Component	Minimum EXOS Software Version	Minimum BootROM Version
Summit X450-G2-24t-GE4 switch	16.1.1	1.0.2.1
Summit X450-G2-24t-10GE4 switch	16.1.1	1.0.2.1
Summit X450-G2-48t-GE4 switch	16.1.1	1.0.2.1
Summit X450-G2-48t-10GE4 switch	16.1.1	1.0.2.1
Summit X450-G2-24p-GE4 switch	16.1.1	1.0.2.1
Summit X450-G2-24p-10GE4 switch	16.1.1	1.0.2.1



Table 16: Summit X450-G2 Series Switches Component Support (continued)

Summit X450-G2 Series Component	Minimum EXOS Software Version	Minimum BootROM Version
Summit X450-G2-48p-GE4 switch	16.1.1	1.0.2.1
Summit X450-G2-48p-10GE4 switch	16.1.1	1.0.2.1

Table 17: Summit X460 Series Switches Component Support

Summit X460 Series Component	Minimum EXOS Software Version	Minimum BootROM Version
Switch Model		
Summit X460-24p switch	12.5.1	2.0.1.0
Summit X460-24t switch	12.5.1	2.0.1.0
Summit X460-24x switch	12.5.1	2.0.1.0
Summit X460-48p switch	12.5.1	2.0.1.0
Summit X460-48t switch	12.5.1	2.0.1.0
Summit X460-48x switch	12.5.1	2.0.1.0
Stacking Modules		
SummitStack	12.5.1	2.0.1.0
SummitStack-V80	12.5.1	2.0.1.0
Option Cards		
XGM3-2sf	12.5.1	N/A
XGM3S-2sf	15.1.1	N/A
XGM3S-2xf	15.1.1	N/A
XGM3SB-4sf	15.1.1	N/A

Table 18: Summit X460-G2 Series Switches Component Support

Summit X460-G2 Series Component	Minimum EXOS Software Version	Minimum BootROM Version
Switch Model		
Summit X460-G2-24t-GE4 switch	15.6.1.4	1.0.2.1
Summit X460-G2-24t-10GE4 switch	15.6.1.4	1.0.2.1
Summit X460-G2-48t-GE4 switch	15.6.1.4	1.0.2.1
Summit X460-G2-48t-10GE4 switch	15.6.1.4	1.0.2.1
Summit X460-G2-24x-10GE4 switch	15.6.1.4	1.0.2.1
Summit X460-G2-48x-10GE4 switch	15.6.1.4	1.0.2.1
Summit X460-G2-24p-GE4 switch	15.6.1.4	1.0.2.1
Summit X460-G2-24p-10GE4 switch	15.6.1.4	1.0.2.1
Summit X460-G2-48p-GE4 switch	15.6.1.4	1.0.2.1
Summit X460-G2-48p-10GE4 switch	15.6.1.4	1.0.2.1



Table 18: Summit X460-G2 Series Switches Component Support (continued)

Summit X460-G2 Series Component	Minimum EXOS Software Version	Minimum BootROM Version
VIM and Clock Modules		
VIM-2q Ethernet Module	15.6.1.4	N/A
VIM-2ss Stacking Module	15.6.1.4	N/A
VIM-2t Ethernet Module	15.6.1.4	N/A
VIM-2x Ethernet Module	15.6.1.4	N/A
TM-CLK Clock Module	15.6.1.4	N/A

Table 19: Summit X480 Series Switches Component Support

Summit X480 Series Component	Minimum EXOS Software Version	Minimum BootROM Version
Switch Model		
Summit X480-24x switch	12.4.1	2.0.0.9
Summit X480-48t switch	12.4.1	2.0.0.9
Summit X480-48x switch	12.4.1	2.0.0.9
Option Cards		
VIM2-10G4X	12.4.1	N/A
VIM2-SummitStack	12.4.1	N/A
VIM2-SummitStack128	12.4.1	N/A
VIM2-SummitStack-V80	12.5.3	N/A
VIM3-40G4x	15.1.2	N/A

Table 20: Summit X650 Series Switches Component Support

Summit X650 Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
Switch Model			
Summit X650-24t switch	12.2.1	1.0.5.5	15.3.x
Summit X650-24x switch	12.2.2	1.0.5.5	15.3.x
Option Cards			
VIM1-10G8X	12.2.2	N/A	
VIM3-40G4x	12.6.1	N/A	
VIM1-SummitStack	12.2.1	N/A	



Table 20: Summit X650 Series Switches Component Support (continued)

Summit X650 Series Component	Minimum EXOS Software Version	Minimum BootROM Version	Last Supported EXOS Software Version
VIM1-SummitStack256	12.4.1	N/A	
VIM1-SummitStack512	12.3.3	N/A	



Note

Upgrading the BootROM on Summit family switches is not automatic when software is upgraded. You must be running the minimum required BootROM version. Use the `download bootrom` command to download a BootROM image.

Table 21: Summit X670 Series Switches Component Support

Summit X670 Series Component	Manufacturing Part No.	Minimum EXOS Software Version	Minimum BootROM Version
Switch Model			
Summit X670-48x switch	800400-00 Rev. 05	12.6.1	2.0.1.2
	800400-00 Rev. 06	15.1.1	
Summit X670V-48x switch	800399-00 Rev. 05	12.6.1	2.0.1.2
	800399-00 Rev. 06	15.1.1	
Summit X670-48t	800518-00 Rev. 01	15.2.2	2.0.1.7
Option Card			
VIM4-40G4X	N/A	12.6.1	N/A

Table 22: Summit X670-G2 Series Switches Component Support

Summit X670-G2 Series Component	Minimum EXOS Software Version	Minimum BootROM Version
Switch Model		
Summit X670-G2-48x-4q switch	15.6.1.4	1.0.2.1
Summit X670-G2-72x switch	15.6.1.4	1.0.2.1

Table 23: Summit X770 Series Switches Component Support

Summit X770 Series Component	Minimum EXOS Software Version	Minimum BootROM Version
Switch Model		
Summit X770 switch	15.4.1.3	2.0.2.1



E4G Series Routers and Components

Table 24: E4G Series Routers Component Support

E4G Series Component	Minimum EXOS Software Version	Minimum BootROM Version
E4G-200 router	15.1.1	2.0.1.6
E4G-200 CLK module	15.1.1	N/A
E4G-200 F16T1E1 module	15.1.1	N/A
E4G-400 router	15.1.1	2.0.1.6
E4G-200-12x router	15.2.2	2.0.1.7
E4G-200-12x CLK module	15.2.2	N/A
E4G-200-12x F16T1E1 module	15.2.2	N/A
XGM3S-2xf option card	15.1.1	N/A
XGM3S-2sf option card	15.1.1	N/A
XGM3SB-4sf option card	15.1.1	N/A
E4G-B16T1E1 option card	15.1.1	N/A

SFP, SFP+, and QSFP+ Support

Table 25: BlackDiamond 8800 and 8900 Series Switches SFP/SFP+/QSFP+ Support

Pluggable Interface Type	Part Number	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	11.1.9	
LX Industrial Grade SFP	10052H	11.1.9	
SX SFP	10051	11.1.9	
SX Industrial Grade SFP	10051H	11.1.9	
ZX SFP	10053	11.1.9	
LX100 SFP	10064	12.0.1.11	
100FX SFP	10063	11.4.3.4 or 11.5.2.10 (not supported in 11.5.1.4)	
1000BASE-T SFP	10055	11.1.9	
100FX/1000LX SFP	10060	11.3.1.3	
1000BX SFP	10056 / 10057	11.4.1.4	Used in -D & -U pairs
10/100/1000BASE-T copper SFP	10065	12.0.2.25	
10/100/1000BASE-T copper Industrial Grade SFP	10070H	15.2.1	
SFP+			
ER SFP+	10309	12.3.3	

Table 25: BlackDiamond 8800 and 8900 Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	Part Number	Minimum ExtremeXOS Software Version	Comments
LR SFP+	10302	12.3.1	
LRM SFP+	10303	12.5.2.2	
SR SFP+	10301	12.3.1	
ZR SFP+	10310	15.2.2	
SFP+ direct-attach passive copper cable			
1 meter	10304	12.3.1	
3 meters	10305	12.3.1	
5 meters	10306	12.3.1	
10 meters	10307	12.3.1	
QSFP+			
SR4 QSFP+	10319	12.6.1	
LR4 QSFP+	10320	15.2.1	
PSM LR4 QSFP+	10326	16.1.1	Can use with 10327 SMF fanout cable
QSFP+ direct-attach passive copper cable			
0.5 meter	10311	12.6.1	
1 meter	10312	12.6.1	
3 meters	10313	12.6.1	
5 meters	10323	15.1.2	
QSFP+-to-SFP+ direct-attach fan-out passive copper cable			
3 meters	10321	15.1.1	
5 meters	10322	15.5.1	
Fanout Cables			
MTP/MPO to 4xLC SMF	10327	16.1.1	10m SMF fanout patch cord for use with PSM LR4 QSFP+ (10326)
MPO to 4xLC MMF	9380014-5M	16.1.1	5m MMF fanout patch cord for use with SR4 QSFP+ (10319)
QSFP+ direct-attach active optical cable			
10 meters	10315	12.6.1	
20 meters	10316	15.1.1	
100 meters	10318	12.6.1	



Table 26: BlackDiamond X Series Switches SFP/SFP+/QSFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	15.1.1	
LX Industrial Grade SFP	10052H	15.1.1	
SX SFP	10051	15.1.1	
SX Industrial Grade SFP	10051H	15.1.1	
ZX SFP	10053	15.1.1	
ZX Industrial Grade SFP	10053H	15.1.1	
LX100 SFP	10064	15.1.1	
1000BX SFP	10056 / 10057	15.1.1	Used in -D & -U pairs
1000BX Industrial Grade SFP	10056H / 10057H	15.1.1	Used in -D & -U pairs
10/100/1000BASE-T copper SFP	10065	15.2.1	
10/100/1000BASE-T copper Industrial Grade SFP	10070H	15.2.1	
SFP+			
ER SFP+	10309	15.1.1	
LR SFP+	10302	15.1.1	
LRM SFP+	10303	15.1.1	
SR SFP+	10301	15.1.1	
ZR SFP+	10310	15.2.2	
SFP+ direct-attach passive copper cable			
1 meter	10304	15.1.1	
3 meters	10305	15.1.1	
5 meters	10306	15.1.1	
10 meters	10307	15.1.1	
QSFP+			
SR4 QSFP+	10319	15.1.1	
LR4 QSFP+	10320	15.2.1	
PSM LR4 QSFP+	10326	16.1.1	Can use with 10327 SMF fanout cable
QSFP+ direct-attach passive copper cable			
0.5 meter	10311	15.1.1	
1 meter	10312	15.1.1	
3 meters	10313	15.1.1	
5 meters	10323	15.1.1	

Table 26: BlackDiamond X Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
QSFP+-to-SFP+ direct-attach fan-out passive copper cable			
3 meters	10321	15.1.1	
5 meters	10322	15.1.1	
Fanout Cables			
MTP/MPO to 4xLC SMF	10327	16.1.1	10m SMF fanout patch cord for use with PSM LR4 QSFP+ (10326)
MPO to 4xLC MMF	9380014-5M	16.1.1	5m MMF fanout patch cord for use with SR4 QSFP+ (10319)
QSFP+ direct-attach active fiber cable			
10 meters	10315	15.1.1	
20 meters	10316	15.1.1	
100 meters	10318	15.1.1	

Table 27: BlackDiamond 10808 Series Switches SFP/SFP+ Support

SFP	Part No.	Minimum ExtremeXOS Software Version	Comments
LX SFP	10052	10.1.0	
LX Industrial Grade SFP	10052H	10.1.0	
LX100 SFP	10064	12.0.1.11	
SX SFP	10051	10.1.0	
SX Industrial Grade SFP	10051H	10.1.0	
ZX SFP	10053	10.1.0	
ZX Industrial Grade SFP	10053H	15.2.2	
1000BASE-T SFP	10055	11.1.1.9	
1000BX SFP	10056 / 10057	11.6.1.9	Used in -D & -U pairs
SFP+			
ZR SFP+	10310	15.2.2	

Table 28: BlackDiamond 12804 Series Switches SFP/SFP+ Support

SFP	Part No.	Minimum ExtremeXOS Software Version	Comments
LX SFP	10052	11.4.1.4	
LX Industrial Grade SFP	10052H	11.4.1.4	



Table 28: BlackDiamond 12804 Series Switches SFP/SFP+ Support (continued)

SFP	Part No.	Minimum ExtremeXOS Software Version	Comments
LX100 SFP	10064	12.0.1.11	
SX SFP	10051	11.4.1.4	
SX Industrial Grade SFP	10051H	11.4.1.4	
ZX SFP	10053	11.4.1.4	
ZX Industrial Grade SFP	10053H	15.2.2	
100FX/1000LX SFP	10060	11.6.1.9	
1000BASE-T SFP	10055	11.4.1.4	
1000BX SFP	10056 / 10057	11.6.1.9	Used in -D & -U pairs
SFP+			
ZR SFP+	10310	15.2.2	

Table 29: BlackDiamond 12802 Series Switches SFP/SFP+ Support

SFP	Part No.	Minimum ExtremeXOS Software Version	Comments
LX SFP	10052	12.0.1.11	
LX Industrial Grade SFP	10052H	12.0.1.11	
SX SFP	10051	12.0.1.11	
SX Industrial Grade SFP	10051H	12.0.1.11	
ZX SFP	10053	12.0.1.11	
ZX Industrial Grade SFP	10053H	15.2.2	
LX100 SFP	10064	12.0.1.11	
100FX/1000LX SFP	10060	12.0.1.11	
1000BASE-T SFP	10055	12.0.1.11	
1000BX SFP	10056 / 10057	12.0.1.11	Used in -D & -U pairs
SFP+			
ZR SFP+	10310	15.2.2	

Table 30: BlackDiamond 20800 Series Switches SFP/SFP+ Support

Optic	Part No.	Minimum ExtremeXOS Software Version	
SFP			
LX SFP	10052	12.2.2	
LX Industrial Grade SFP	10052H	12.2.2	
SX SFP	10051	12.2.2	
SX Industrial Grade SFP	10051H	12.2.2	
ZX SFP	10053	12.2.2	

Table 30: BlackDiamond 20800 Series Switches SFP/SFP+ Support (continued)

Optic	Part No.	Minimum ExtremeXOS Software Version	
ZX Industrial Grade SFP	10053H	15.2.2	
LX100 SFP	10064	12.2.2	
1000BX SFP	10056 / 10057	12.2.2	Used in -D & -U pairs
10/100/1000BASE-T copper SFP	10065	12.2.2	
10/100/1000BASE-T copper Industrial Grade SFP	10070H	15.2.1	
SFP+			
ZR SFP+	10310	15.2.2	

Table 31: Summit X150 Series Switches SFP Support

SFP	Part No.	Minimum ExtremeXOS Software Version	Comments
LX SFP	10052	12.0.2.25	
LX Industrial Grade SFP	10052H	12.0.2.25	
SX SFP	10051	12.0.2.25	
SX Industrial Grade SFP	10051H	12.0.2.25	
ZX SFP	10053	12.0.2.25	
ZX Industrial Grade SFP	10053H	15.2.2	
LX100 SFP	10064	12.0.2.25	
100BASE-BX SFP	10058 / 10059	12.0.2.25	Used in -D & -U pairs
100BASE LX10 SFP	10066	12.0.2.25	
100BASE-FX SFP for fast Ethernet ports (P/N 10067)	10067	12.0.2.25	
1000BX SFP	10056 / 10057	12.0.2.25	Used in -D & -U pairs

Table 32: Summit X250e Series Switches SFP Support

SFP	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	12.0.2.25	
LX Industrial Grade SFP	10052H	12.0.2.25	
SX SFP	10051	12.0.2.25	
SX Industrial Grade SFP	10051H	12.0.2.25	
ZX SFP	10053	12.0.2.25	
ZX Industrial Grade SFP	10053H	15.2.2	

Table 32: Summit X250e Series Switches SFP Support (continued)

SFP	Part No.	Minimum ExtremeXOS Software Version	Comments
LX100 SFP	10064	12.0.2.25	
100BASE-FX SFP for fast Ethernet ports (P/N 10067)	10067	12.0.2.25	
100BASE BX SFP	10058 / 10059	12.0.2.25	Used in -D & -U pairs
100BASE LX10 SFP	10066	12.0.2.25	
1000BASE BX SFP	10056 / 10057	12.0.2.25	Used in -D & -U pairs



Note

The XGM2-2sf ports are 10-Gb SFP+ ports and do not support 1-Gb optics (PD4-739782255).

Table 33: Summit X350 Series Switches SFP/SFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	12.1.2	
LX Industrial Grade SFP	10052H	12.1.2	
SX SFP	10051	12.1.2	
SX Industrial Grade SFP	10051H	12.1.2	
ZX SFP	10053	12.1.2	
ZX Industrial Grade SFP	10053H	15.2.2	
LX100 SFP	10064	12.1.2	
100FX SFP (P/N 10063)	10063	12.1.2	
1000BASE BX SFP	10056 / 10057	12.1.2	Used in -D & -U pairs
10/100/1000BASE-T copper SFP (not supported on combo ports)	10065	12.1.2	
10/100/1000BASE-T copper Industrial Grade SFP(not supported on combo ports)	10070H	15.2.1	
SFP+ (XGM2-2sf option card required)			
ER SFP+	10309	12.3.3	
LR SFP+	10302	12.2.1	
SR SFP+	10301	12.2.1	
LRM SFP+	10303	12.5.2.2	
ZR SFP+	10310	15.2.2	
SFP+ direct-attach passive copper cable (XGM2-2sf option card required)			
1 meter	10304	12.2.1	



Table 33: Summit X350 Series Switches SFP/SFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
3 meters	10305	12.2.1	
5 meters	10306	12.2.1	
10 meters	10307	12.2.1	

Table 34: Summit X430 Series Switches SFP/SFP+ Support

SFP Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	15.5.2.9	
LX Industrial Grade SFP	10052H	15.5.2.9	
SX SFP	10051	15.5.2.9	
SX Industrial Grade SFP	10051H	15.5.2.9	
ZX SFP	10053	15.5.2.9	
ZX Industrial Grade SFP	10053H	15.5.2.9	
LX100 SFP	10064	15.5.2.9	
1000BASE BX SFP	10056 / 10057	15.5.2.9	
1000BASE BX Industrial Grade SFP	10056H / 10057H	15.5.2.9	
100BASE-FX SFP for fast Ethernet ports (P/N10067)	10067	15.5.2.9	
100BASE-LX10 SFP	10066	15.5.2.9	
100BASE BX SFP	10058 / 10059	15.5.2.9	Used in -D & -U pairs
10/100/1000BASE-T copper SFP (not supported on combo ports)	10065	15.5.2.9	
10/100/1000BASE-T copper Industrial Grade SFP (not supported on combo ports)	10070H	15.5.2.9	
100FX/1000LX SFP (not supported on combo ports)	10060	15.5.2.9	

Table 35: Summit X440 Series Switches SFP/SFP+/QSFP+ Support

SFP Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	15.1.1	
LX Industrial Grade SFP	10052H	15.1.1	

Table 35: Summit X440 Series Switches SFP/SFP+/QSFP+ Support (continued)

SFP Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SX SFP	10051	15.1.1	
SX Industrial Grade SFP	10051H	15.1.1	
ZX SFP	10053	15.1.2	
ZX Industrial Grade SFP	10053H	15.1.2	
LX100 SFP	10064	15.1.1	
1000BASE BX SFP (BX-D, BX-U)	10056 / 10057	15.1.1	Used in -D & -U pairs
1000BASE BX Industrial Grade SFP	10056H / 10057H	15.2.2	Used in -D & -U pairs
100BASE-FX SFP for fast Ethernet ports (P/N 10067)	10067	15.1.1	
100BASE-LX10 SFP	10066	15.1.1	
100BASE BX SFP (BX-D, BX-U)	10058 / 10059	15.1.1	Used in -D & -U pairs
10/100/1000BASE-T copper SFP (not supported on combo ports)	10065	15.2.1	
10/100/1000BASE-T copper Industrial Grade SFP (not supported on combo ports)	10070H	15.2.1	
100FX/1000LX SFP (not supported on combo ports)	10060	15.2.2	
SFP+			
ER SFP+	10309	15.1.2	
LR SFP+	10302	15.1.2	
SR SFP+	10301	15.1.2	
LRM SFP+	10303	15.1.2	
ZR SFP+	10310	15.2.2	
SFP+ direct-attach passive copper cable			
1 meter	10304	15.1.2	
3 meters	10305	15.1.2	
5 meters	10306	15.1.2	
10 meters	10307	15.1.2	


Note

The XGM2-2sf ports are 10Gb SFP+ ports and do not support 1Gb optics (PD4-739782255)

Table 36: Summit X450a Series Switches SFP/SFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	11.2.2.4	
LX Industrial Grade SFP	10052H	11.2.2.4	
SX SFP	10051	11.2.2.4	
SX Industrial Grade SFP	10051H	11.2.2.4	
ZX SFP	10053	11.2.2.4	
LX100 SFP	10064	12.0.1.11	
100FX SFP (P/N 10063)	10063	11.6.1.9	
100FX/1000LX SFP (Summit X450a-24x)	10060	11.6.1.9	
1000BX SFP	10056 / 10057	11.6.1.9	Used in -D & -U pairs
10/100/1000BASE-T copper SFP (not supported on combo ports)	10065	12.0.2.25	
10/100/1000BASE-T copper Industrial Grade SFP (not supported on combo ports)	10070H	15.2.1	
SFP+ (XGM2-2sf option card required)			
ER SFP+	10309	12.3.3	
LR SFP+	10302	12.2.1	
SR SFP+	10301	12.2.1	
LRM SFP+	10303	12.5.2.2	
ZR SFP+	10310	15.2.2	
SFP+ direct-attach passive copper cable (XGM2-2sf option card required)			
1 meter	10304	12.2.1	
3 meters	10305	12.2.1	
5 meters	10306	12.2.1	
10 meters	10307	12.2.1	

Table 37: Summit X450e Series Switches SFP/SFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	11.6.1.9	
LX Industrial Grade SFP	10052H	11.6.1.9	
SX SFP	10051	11.6.1.9	
SX Industrial Grade SFP	10051H	11.6.1.9	
ZX SFP	10053	11.6.1.9	

Table 37: Summit X450e Series Switches SFP/SFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
LX100 SFP	10064	12.0.1.11	
1000BX SFP	10056 / 10057	11.6.1.9	Used in -D & -U pairs
SFP+ (XGM2-2sf option card required)			
ER SFP+	10309	12.3.3	
LR SFP+	10302	12.2.1	
SR SFP+	10301	12.2.1	
LRM SFP+	10303	12.5.2.2	
ZR SFP+	10310	15.2.2	
SFP+ direct-attach passive copper cable (XGM2-2sf option card required)			
1 meter	10304	12.2.1	
3 meters	10305	12.2.1	
5 meters	10306	12.2.1	
10 meters	10307	12.2.1	

Table 38: Summit X450-G2 Series Switches SFP/SFP+/QSFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX Industrial Grade SFP	10052H	16.1	
SX Industrial Grade SFP	10051H	16.1	
ZX Industrial Grade SFP	10053H	16.1	
100FX/1000LX SFP	10060	16.1	1Gb speed only
1000BASE-LX100 SFP	10064	16.1	1Gb speed only
1000BASE-BX-D SFP and BX-U SFP Industrial Temp	10056H / 10057H	16.1	Used in -D & -U pairs
10/100/1000BASE-T SFP Industrial Temp	10070H	16.1	1Gb speed only
SFP+			
ER SFP+	10309	16.1	
LR SFP+	10302	16.1	
SR SFP+	10301	16.1	
10G LRM SFP+	10303	16.1	
SFP+ direct-attach passive copper cable			
1 meter	10304	16.1	
3 meters	10305	16.1	

Table 38: Summit X450-G2 Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
5 meters	10306	16.1	
10 meters	10307	16.1	
QSFP+ direct-attach passive copper cable (SummitStack V84 ports only)			
0.5 meter	10311	16.1	SummitStack V84 only
1 meters	10312	16.1	SummitStack V84 only
3 meters	10313	16.1	SummitStack V84 only
5 meter	10323	16.1	SummitStack V84 only

Table 39: Summit X460 Series Switches SFP/SFP+/QSFP+ Support

Pluggable Interface Type	SKU No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	12.5.1	
LX Industrial Grade SFP	10052H	12.5.1	
SX SFP	10051	12.5.1	
SX Industrial Grade SFP	10051H	12.5.1	
ZX SFP	10053	12.5.1	
LX100 SFP	10064	12.5.1	
100BASE-LX10 SFP	10066	12.5.1	
100BX SFP	10058 / 10059	12.5.1	Used in -D & -U pairs
100FX SFP (P/N 10063)	10063	11.6.1.9	
1000BX SFP	10056 / 10057	12.5.1	Used in -D & -U pairs
100BASE-FX SFP for fast Ethernet ports (P/N10067)	10067	12.0.2.25	
100FX/1000LX SFP	10060	12.5.1	
10/100/1000BASE-T copper SFP	10065	12.5.1	
10/100/1000BASE-T copper Industrial Grade SFP	10070H	15.2.1	
SFP+ (XGM3-2sf option card required)			
ER SFP+	10309	12.5.1	
LR SFP+	10302	12.5.1	
SR SFP+	10301	12.5.1	
LRM SFP+	10303	12.5.2.2	
ZR SFP+	10310	15.2.2	

Table 39: Summit X460 Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	SKU No.	Minimum ExtremeXOS Software Version	Comments
SFP+ direct-attach passive copper cable (XGM3-2sf option card required)			
1 meter	10304	12.2.1	
3 meters	10305	12.2.1	
5 meters	10306	12.2.1	
10 meters	10307	12.2.1	
QSFP+ (used for stacking with SummitStack-V80 option card)			
SR4 QSFP+	10319	12.5.1	
LR4 QSFP+	10320	15.2.1	
QSFP+ direct-attach active optical cable (used for stacking with SummitStack-V80 option card)			
10 meters	10315	12.2.1	
20 meters	10316	15.1.1	
100 meters	10318	12.2.1	

Table 40: Summit X460-G2 Series Switches SFP/SFP+/QSFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	15.6.1.4	
LX Industrial Grade SFP	10052H	15.6.1.4	
SX SFP	10051	15.6.1.4	
SX Industrial Grade SFP	10051H	15.6.1.4	
ZX SFP	10053	15.6.1.4	
ZX Industrial Grade SFP	10053H	15.6.1.4	
100FX SFP (not supported on combo ports)	10063	15.6.1.4	
100FX/1000LX SFP (not supported on combo ports)	10060	15.6.1.4	
100BASE-FX SFP	10067	15.6.1.4	
1000BASE-BX-D SFP and BX-U SFP Industrial Temp	10056H / 10057H	15.6.1.4	Used in -D & -U pairs
100BASE-BX-D SFP and BX-U SFP	10058 / 10059	15.6.1.4	Used in -D & -U pairs
10/100/1000BASE-T SFP Industrial Temp (not supported on combo ports)	10070H	15.6.1.4	
100BASE-LX10	10066	15.6.1.4	
SFP+			



Table 40: Summit X460-G2 Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
ER SFP+	10309	15.6.1.4	
LR SFP+	10302	15.6.1.4	
SR SFP+	10301	15.6.1.4	
10G LRM SFP+ (only with VIM-2x)	10303	15.6.1.4	only with VIM-2x
SFP+ direct-attach passive copper cable			
1 meter	10304	15.6.1.4	
3 meters	10305	15.6.1.4	
5 meters (only with VIM-2x)	10306	15.6.1.4	only with VIM-2x
10 meters (only with VIM-2x)	10307	15.6.1.4	only with VIM-2x
QSFP+ (requires VIM-2q module)			
SR4 QSFP+	10319	15.6.1.4	1x40Gb mode only
LR4 QSFP+	10320	15.6.1.4	1x40Gb mode only
PSM LR4 QSFP+	10326	16.1.1	1x40Gb mode only
QSFP+ direct-attach active optical cable (requires VIM-2q module)			
10 meters	10315	15.6.1.4	
20 meters	10316	15.6.1.4	
100 meters	10318	15.6.1.4	
QSFP+ direct-attach passive copper cable (requires VIM-2q module)			
0.5 meter	10311	15.6.1.4	
1 meters	10312	15.6.1.4	
3 meters	10313	15.6.1.4	
5 meter	10323	15.6.1.4	

Table 41: Summit X480 Series Switches SFP/SFP+/QSFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	12.4.1	
LX Industrial Grade SFP	10052H	12.4.1	
SX SFP	10051	12.4.1	
SX Industrial Grade SFP	10051H	12.4.1	
ZX SFP	10053	12.4.1	
LX100 SFP	10064	12.4.1	



Table 41: Summit X480 Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
100BASE-FX SFP for fast Ethernet ports (P/N10067)	10067	12.4.1	
100BASE-LX10 SFP	10066	12.4.1	
100BX SFP	10058 / 10059	12.4.1	Used in -D & -U pairs
100FX/1000LX SFP	10060	12.4.1	
100FX SFP (P/N 10063)	10063	12.4.1	
1000BX SFP	10056 / 10057	12.4.1	Used in -D & -U pairs
10/100/1000BASE-T copper SFP	10065	12.4.1	
10/100/1000BASE-T copper Industrial Grade SFP	10070H	15.2.1	
SFP+			
ZR SFP+	10310	15.2.2	
QSFP+ (used for stacking with VIM2-SummitStack-V80 module)			
SR4 QSFP+	10319	12.5.3	
LR4 QSFP+	10320	15.2.1	
QSFP+ (requires VIM3-40G4X)			
SR4 QSFP+	10319	15.2.2	
LR4 QSFP+	10320	15.2.1	
PSM LR4 QSFP+	10326	16.1.1	Can use with 10327 SMF fanout cable
QSFP+ direct-attach active optical cable (used for stacking with VIM2-SummitStack-V80 module)			
10 meters	10315	12.5.3	
20 meters	10316	15.1.1	
100 meters	10318	12.5.3	
QSFP+ direct-attach passive copper cable (used for stacking with VIM2-SummitStack-V80 module)			
0.5 meters	10311	12.5.3	
1 meter	10312	12.5.3	
3 meters	10313	12.5.3	
5 meter	10323	15.1.1	
Fanout Cables (requires VIM4-40G module)			
MTP/MPO to 4xLC SMF	10327	16.1.1	10m SMF fanout patch cord for use with PSM LR4 QSFP+ (10326)



Table 41: Summit X480 Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
MPO to 4xLC MMF	9380014-5M	16.1.1	5m MMF fanout patch cord for use with SR4 QSFP+ (10319)
QSFP+-to-SFP+ fan-out passive copper cable (requires VIM3-40G module)			
3 meters	10321	15.1.1	
5 meters	10322	15.1.1	

Table 42: Summit 650 Series Switches SFP/SFP+/QSFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
BX SFP	10056 / 10057	12.2.1	Used in -D & -U pairs
LX SFP	10052	12.2.1	
LX Industrial Grade SFP	10052H	12.2.1	
SX SFP	10051	12.2.1	
SX Industrial Grade SFP	10051H	12.2.1	
ZX SFP	10053	12.2.1	
LX100 SFP	10064	12.2.1	
10/100/1000BASE-T copper SFP—1000 speed support only	10065	12.3.3	
10/100/1000BASE-T copper Industrial Grade SFP—1000 speed support only	10070H	15.2.1	
SFP+			
ER SFP+	10309	12.2.2	
LR SFP+	10302	12.2.2	
SR SFP+	10301	12.3.3	
ZR SFP+ (VIM1 module ports 1 through 22)	10310	15.2.2	
SFP+ direct-attach passive copper cable			
1 meter	10304	12.2.1	
3 meters	10305	12.2.1	
5 meters	10306	12.2.1	
10 meters	10307	12.2.1	
QSFP+ (requires VIM3-40G module)			



Table 42: Summit 650 Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SR QSFP+	10319	12.5.3	
LR4 QSFP+	10320	15.2.1	
QSFP+ direct-attach active optical cable (used for stacking with VIM2-SummitStack-V80 module)			
10 meters	10315	12.5.3	
20 meters	10316	15.1.1	
100 meters	10318	12.5.3	
QSFP+ direct-attach passive copper cable (used for stacking with VIM2-SummitStack-V80 module)			
0.5 meters	10311	12.5.3	
1 meter	10312	12.5.3	
3 meters	10313	12.5.3	
5 meters	10323	15.1.1	
QSFP+-to-SFP+ fan-out passive copper cable (requires VIM3-40G module)			
3 meters	10321	15.1.1	
5 meters	10322	15.1.1	

Table 43: Summit X670 Series Switches SFP/SFP+/QSFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	12.6.1	
LX Industrial Grade SFP	10052H	12.6.1	
SX SFP	10051	12.6.1	
SX Industrial Grade SFP	10051H	12.6.1	
ZX SFP	10053	12.6.1	
ZX Industrial Grade SFP	10053H	12.6.1	
LX100 SFP	10064	12.6.1	
10/100/1000BASE-T copper SFP)	10065	12.6.1	Gigabit speed only
10/100/1000BASE-T copper Industrial Grade SFP	10070H	15.2.1	Gigabit speed only
SFP+			
ER SFP+	10309	12.6.1	
LR SFP+	10302	12.6.1	
SR SFP+	10301	12.6.1	
ZR SFP+	10310	15.2.2	



Table 43: Summit X670 Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
LRM SFP+	10303	15.3.2	
SFP+ direct-attach passive copper cable			
1 meter	10304	12.6.1	
3 meters	10305	12.6.1	
5 meters	10306	12.6.1	

Table 44: Summit X670V-48x and X670V-48t Series Switches SFP/SFP+/QSFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	12.6.1	
LX Industrial Grade SFP	10052H	12.6.1	
SX SFP	10051	12.6.1	
SX Industrial Grade SFP	10051H	12.6.1	
ZX SFP	10053	12.6.1	
ZX Industrial Grade SFP	10053H	12.6.1	
LX100 SFP	10064	12.6.1	
10/100/1000BASE-T copper Industrial Grade SFP	10070H	15.2.1	Gigabit speed only
SFP+			
ER SFP+	10309	12.6.1	
LR SFP+	10302	12.6.1	
SR SFP+	10301	12.6.1	
ZR SFP+	10310	15.2.2	
10G LRM SFP+	10303	15.3.2	X670V-48x only
SFP+ direct-attach passive copper cable			
1 meter	10304	12.6.1	
3 meters	10305	12.6.1	
5 meters	10306	12.6.1	
10 meters	10307	12.6.1	
QSFP+ (requires VIM4-40G module)			
SR4 QSFP+	10319	12.6.1	
LR4 QSFP+	10320	15.2.1	
PSM LR4 QSFP+	10326	16.1.1	Can use with 10327 SMF fanout cable



Table 44: Summit X670V-48x and X670V-48t Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
Fanout Cables (requires VIM4-40G module)			
MTP/MPO to 4xLC SMF	10327	16.1.1	10m SMF fanout patch cord for use with PSM LR4 QSFP+ (10326)
MPO to 4xLC MMF	9380014-5M	16.1.1	5m MMF fanout patch cord for use with SR4 QSFP+ (10319)
QSFP+ direct-attach active optical cable (requires VIM4-40G module)			
10 meters	10315	12.6.1	
20 meters	10316	15.1.1	
100 meters	10318	12.6.1	
QSFP+-to-SFP+ direct-attach fan-out passive copper cable (requires VIM4-40G module)			
3 meters	10321	15.1.1	
5 meters	10322	15.1.1	
QSFP+ direct-attach passive copper cable (requires VIM4-40G module)			
0.5 meter	10311	12.6.1	
1 meter	10312	12.6.1	
3 meters	10313	12.6.1	
5 meter	10323	15.1.1	

Table 45: Summit X670-G2 Series Switches SFP/SFP+/QSFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	15.6.1.4	
LX Industrial Grade SFP	10052H	15.6.1.4	
SX SFP	10051	15.6.1.4	
SX Industrial Grade SFP	10051H	15.6.1.4	
ZX SFP	10053	15.6.1.4	
ZX Industrial Grade SFP	10053H	15.6.1.4	
10/100/1000BASE-T SFP Industrial Temp	10070H	15.6.1.4	1Gb speed only
SFP+			
ER SFP+	10309	15.6.1.4	
LR SFP+	10302	15.6.1.4	
SR SFP+	10301	15.6.1.4	

Table 45: Summit X670-G2 Series Switches SFP/SFP+/QSFP+ Support (continued)

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
ZR SFP+	10310	15.6.1.4	
SFP+ direct-attach passive copper cable			
1 meter	10304	15.6.1.4	
3 meters	10305	15.6.1.4	
5 meters	10306	15.6.1.4	Not supported for SummitStack links
QSFP+ (X670-G2-48x-4q only)			
SR4 QSFP+	10319	15.6.1.4	
LR4 QSFP+	10320	15.6.1.4	
PSM LR4 QSFP+	10326	16.1.1	Can use with 10327 SMF fanout cable
QSFP+ direct-attach active optical cable (X670-G2-48x-4q only)			
10 meters	10315	15.6.1.4	
20 meters	10316	15.6.1.4	
100 meters	10318	15.6.1.4	
QSFP+-to-SFP+ direct-attach fan-out passive copper cable (X670-G2-48x-4q only)			
1 meter	10202	15.6.1.4	
2 meters	10203	15.6.1.4	
3 meters	10321	15.6.1.4	
QSFP+ quad fan-out cable (X670-G2-48x-4q only)			
QSFP+ fan out	9380014-5M	15.6.1.4	
Fanout Cables (X670-G2-48x-4q only)			
MTP/MPO to 4xLC SMF	10327	16.1.1	10m SMF fanout patch cord for use with PSM LR4 QSFP+ (10326)
MPO to 4xLC MMF	9380014-5M	16.1.1	5m MMF fanout patch cord for use with SR4 QSFP+ (10319)
QSFP+ direct-attach passive copper cable (X670-G2-48x-4q only)			
0.5 meter	10311	15.6.1.4	
1 meter	10312	15.6.1.4	
3 meters	10313	15.6.1.4	Not supported for SummitStack links
5 meters	10323	15.6.1.4	Not supported for SummitStack links

Table 46: Summit X770 QSFP+ Support

Pluggable Interface Type	Part No.	Minimum ExtremeXOS Software Version	Comments
QSFP+			
SR4 QSFP+	10319	15.4.1	
LR4 QSFP+	10320	15.4.1	
PSM LR4 QSFP+	10326	16.1.1	Can use with 10327 SMF fanout cable
QSFP+ direct-attach active optical cable			
10 meters	10315	15.4.1	
20 meters	10316	15.4.1	
100 meters	10318	15.4.1	
QSFP+-to-SFP+ direct-attach fan-out passive copper cable			
1 meter (26 AWG)	10202	15.4.1	
2 meters (26 AWG)	10203	15.4.1	
3 meters	10321	15.4.1	
Fanout Cables			
MTP/MPO to 4xLC SMF	10327	16.1.1	10m SMF fanout patch cord for use with PSM LR4 QSFP+ (10326)
MPO to 4xLC MMF	9380014-5M	16.1.1	5m MMF fanout patch cord for use with SR4 QSFP+ (10319)
QSFP+ direct-attach passive copper cable			
0.5 meter	10311	15.4.1	
1 meter	10312	15.4.1	
3 meters (26 AWG)	10313A	15.4.1	
3 meters	10313	15.4.1	

Table 47: Summit E4G Series Switches SFP/SFP+ Support

Pluggable Interface Type	SKU No.	Minimum ExtremeXOS Software Version	Comments
SFP			
LX SFP	10052	15.1.1	
LX Industrial Grade SFP	10052H	15.1.1	
SX SFP	10051	15.1.1	
SX Industrial Grade SFP	10051H	15.1.1	
ZX SFP	10053	15.1.1	
LX100 SFP	10064	15.1.1	
100BASE-LX10 SFP	10066	15.1.1	
100BX SFP	10058 / 10059	15.1.1	Used in -D & -U pairs



Table 47: Summit E4G Series Switches SFP/SFP+ Support (continued)

Pluggable Interface Type	SKU No.	Minimum ExtremeXOS Software Version	Comments
100FX SFP	10063	15.1.1	Not supported on E4G-400 combo ports
1000BX SFP	10056 / 10057	15.1.1	Used in -D & -U pairs
100BASE-FX SFP for fast Ethernet ports	10067	15.1.1	
100FX/1000LX SFP		15.1.1	Not supported on E4G-400 combo ports
10/100/1000BASE-T copper SFP	10065	15.1.1	Not supported on E4G-400 combo ports
10/100/1000BASE-T copper Industrial Grade	10070H	15.2.1	Not supported on E4G-400 combo ports
SFP+ (XGM3S-2sf or XGM3SB-4sf option card required)			
ER SFP+	10309	15.1.1	
LR SFP+	10302	15.1.1	
SR SFP+	10301	15.1.1	
LRM SFP+	10303	15.1.1	
ZR SFP+	10310	15.2.2	
SFP+ direct-attach passive copper cable (XGM3S-2sf or XGM3SB-4sf option card required)			
1 meter	10304	15.1.1	
3 meters	10305	15.1.1	
5 meters	10306	15.1.1	
10 meters	10307	15.1.1	

XENPAK Module Support

Table 48: BlackDiamond 10808 Series Switches XENPAK Support

XENPAK Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10112	11.1.1.9	
LR	10111	11.1.1.9	
SR	10110	11.1.1.9	
ZR	10113	11.3.1.3	
LW	10116E	11.4.1.4	
LX4	10114	11.3.1.3	

Table 49: BlackDiamond 12804 Series Switches XENPAK Support

XENPAK Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10112	11.4.1.4	
LR	10111	11.4.1.4	
SR	10110	11.4.1.4	
ZR	10113	11.4.1.4	
LW	10116E	11.4.1.4	
LX4	10114	11.4.1.4	

Table 50: BlackDiamond 12802 Series Switches XENPAK Support

XENPAK Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10112	12.0.1.11	
LR	10111	12.0.1.11	
SR	10110	12.0.1.11	
ZR	10113	12.0.1.11	
LW	10116E	12.0.1.11	
LX4	10114	12.0.1.11	

Table 51: Summit X350 Series Switches XENPAK Support

XENPAK Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10112	12.0.3.16	
LR	10111	12.0.3.16	
SR	10110	12.0.3.16	
ZR	10113	12.0.3.16	
LX4	10114	12.0.3.16	

Table 52: Summit X450a Series Switches XENPAK Support

XENPAK Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10112	11.6.1.9	
LR	10111	11.6.1.9	
SR	10110	11.6.1.9	
ZR	10113	11.6.1.9	
LW	10116E	11.6.1.9	
CX4		12.0.1.11	
LX4	10114	11.6.1.9	



Table 53: Summit X450e Series Switches XENPAK Support

XENPAK Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10112	11.5.1.4	
LR	10111	11.5.1.4	
SR	10110	11.5.1.4	
ZR	10113	11.5.1.4	
CX4		12.0.1.11	
LX4	10114	11.5.1.4	



Note

XENPAKs not supplied by Extreme Networks will show up as “Unsupported Optic Module” in the `show ports x:y information detail` and `show ports x:y configuration` command output.

XFP Module Support

Table 54: BlackDiamond 8800 Series Switches XFP Support

XFP Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10124	12.0.2.25	
LR	10122	11.6.1.9	
SR	10121	11.6.1.9	
ZR	10125	12.1.2.17	
Tunable DWDM (40 channels)	10200	12.5.1	
Tunable DWDM (80 channels)	10200	12.6.1	

Table 55: BlackDiamond 20800 Series Switches XFP Support

XFP Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10124	12.2	
LR	10122	12.2	
SR	10121	12.2	
ZR	10125	12.2	
Tunable DWDM (40 channels)	10200	12.5.1	
Tunable DWDM (80 channels)	10200	12.6.1	

Table 56: Summit X350 Series Switches XFP Support

XFP Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10124	12.0.3.16	
LR	10122	12.0.3.16	



Table 56: Summit X350 Series Switches XFP Support (continued)

XFP Module	Part No.	Minimum ExtremeXOS Software Version	Comments
SR	10121	12.0.3.16	
ZR	10125	12.1.2.17	

Table 57: Summit X450a and X450e Series Switches XFP Support

XFP Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10124	11.5.1.4	
LR	10122	11.5.1.4	
SR	10121	12.0.2.25	
ZR	10125	12.1.2.17	

Table 58: Summit X460 Series Switches XFP Support

XFP Module (requires XGM3S-2xf option card)	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10124	15.1.1	
LR	10122	15.1.1	
SR	10121	15.1.1	
ZR	10125	15.1.1	
Tunable DWDM (up to 80 channels)	10200	15.1.1	

Table 59: Summit X480 Series Switches XFP Support

XFP Module	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10124	12.4.1	
LR	10122	12.4.1	
SR	10121	12.4.1	
ZR	10125	12.4.1	
Tunable DWDM (40 channels)	10200	12.5.1	
Tunable DWDM (80 channels)	10200	12.6.1	

Table 60: E4G-400 Cell Site Aggregation Router XFP Support

XFP Module (requires XGM3S-2xf option card)	Part No.	Minimum ExtremeXOS Software Version	Comments
ER	10124	15.1.1	
LR	10122	15.1.1	
SR	10121	15.1.1	
ZR	10125	15.1.1	
Tunable DWDM (up to 80 channels)	10200	15.1.1	



CFP2 Module Support

Table 61: BlackDiamond X Series Switches CFP2 Support

CFP2 Module	Part No.	Minimum ExtremeXOS Software Version	Comments
SR10	10331	15.5.1	
LR4	10330	15.5.1	

2 Release Recommendations

The following table lists the recommended ExtremeXOS release and patch for each hardware platform.

Table 62: Release Recommendations by Platform

Platform	Recommended Release	Last Updated
BD 8500-MSM24	EXOS 15.5.4.2	13-May-15
BD12800	EXOS 15.1.5.4-patch1-8	13-May-15
BD10800	EXOS 15.1.5.4-patch1-8	13-May-15
BD20800	EXOS 15.1.5.4-patch1-8	13-May-15
BDX8	EXOS 15.5.4.2	13-May-15
BD 8900-MSM128	EXOS 15.5.4.2	13-May-15
BD 8800 MSM-48c	EXOS 15.5.4.2	13-May-15
X150	EXOS 15.3.5.2-patch1-3	13-May-15
X250	EXOS 15.3.5.2-patch1-3	13-May-15
X350	EXOS 15.3.5.2-patch1-3	13-May-15
X430	EXOS 15.5.4.2	13-May-15
X440	EXOS 15.5.4.2	13-May-15
X450a	EXOS 15.3.5.2-patch1-3	13-May-15
X450e	EXOS 15.3.5.2-patch1-3	13-May-15
X460	EXOS 15.5.4.2	13-May-15
X480	EXOS 15.5.4.2	13-May-15
X650	EXOS 15.3.5.2-patch1-3	13-May-15
X670	EXOS 15.5.4.2	13-May-15
X770	EXOS 15.5.4.2	13-May-15
E4G-200	EXOS 15.5.4.2	13-May-15
E4G-400	EXOS 15.5.4.2	13-May-15
X460-G2	EXOS 15.6.3.1	13-May-15
X670-G2	EXOS 15.6.3.1	13-May-15