



UCS B and C Series Servers Direct and Raritan DKX3-108 Switch KVM Interoperability Matrix

First Published: June 03, 2016

Last Modified: June 09, 2016

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CONTENTS

CHAPTER 1

UCS B and C Series Servers Direct and Raritan DKX3-108 Switch KVM Interoperability

Matrix 1

Overview 1

CHAPTER 2

Components Matrix 3

Components Matrix 3

CHAPTER 3

KVM Interoperability Matrix 5

Test Matrix 5

Issues Matrix 14

Related Documentation 14



UCS B and C Series Servers Direct and Raritan DKX3-108 Switch KVM Interoperability Matrix

- [Overview, page 1](#)

Overview

This document provides interoperability matrices for Cisco Unified Computing System Servers and Configurations that have been tested and validated by Cisco, Cisco partners, or both. Use this document as a reference for supported hardware and software.

The Raritan DKX3-108 IP KVM Switch interoperability test mainly validates the KVM accessibility of servers with different flavors of OS such as Windows, RHEL, CentOS, SUSE and VMWare ESXi Hypervisor. Also validating the product's functionality on the Japanese OS and control through KVM switch on servers. The Raritan DKX3-108 IP KVM Switch is tested with Cisco UCS B series and C series servers OS installation for Hotkeys, OSD functionalities in Japanese environment.

Audience

This document is designed for use by Cisco sales, support engineers, professional service partners and system administrators responsible for the design and deployment of the Unified Computing System in the data center environment.

Acronyms

Acronym	Description
KVM	Keyboard Video and Mouse
LAN	Local Area Network
MLOM	Modular LAN on Mother Board
OS	Operating System
OSD	On-Screen Display
RHEL	Red Hat Enterprise Linux

Acronym	Description
SIOC	System Input Output Controller
SLES	SUSE Linux Enterprise Server
UCS	Unified Computing System
UCSM	Unified Computing System Manager
VIC	Virtual Interface Card



CHAPTER 2

Components Matrix

- [Components Matrix, page 3](#)

Components Matrix

Component	Version
Server	
Cisco UCS 5108 Chassis	3.1(1g)
FI 6296	5.0(3)N2(3.11g)
UCS Manager	3.1(1g)
CIMC (C3160, C3260)	2.0(9i)
CIMC (C460 M4)	2.0(9f)
CIMC (C220 M4, C240 M4)	2.0(10b)
UCS Driver Bundle	ucs-bxxx-drivers.3.1.1
Standalone Server Adapter	
VIC 1225 / VIC 1227 / VIC 1300 SIOC/	4.1(1d)
UCSM Integrated Server Adapter	
VIC 1340/ VIC1380 / VIC 1225/ VIC 1227	4.1(1d)



KVM Interoperability Matrix

- [Test Matrix, page 5](#)
- [Issues Matrix, page 14](#)
- [Related Documentation, page 14](#)

Test Matrix

- [Cisco UCS B200 M4 Server, on page 5](#)
- [Cisco UCS B260 M4 Server, on page 6](#)
- [Cisco UCS B460 M4 Server, on page 7](#)
- [Cisco UCS C220 M4 server in Standalone mode, on page 8](#)
- [Cisco UCS C240 M4 Server in Standalone mode, on page 9](#)
- [Cisco UCS C460 M4 Server in Standalone mode, on page 9](#)
- [Cisco UCS C3160 Server in Standalone mode, on page 10](#)
- [Cisco UCS C3260 Server in Standalone mode, on page 11](#)
- [Cisco UCS C220 M4 Server in UCSM Integrated mode, on page 12](#)
- [Cisco UCS C240 M4 Server in UCSM Integrated mode, on page 13](#)
- [Cisco UCS C460 M4 Server in UCSM Integrated mode, on page 13](#)

Cisco UCS B200 M4 Server

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1340	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1340	Passed

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1340	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.0	Local Storage	VIC 1340	Passed
5	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1340	Passed
6	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1340	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.0	Local Storage	VIC 1340	Passed
8	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1340	Passed
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U2	Local Storage	VIC 1340	Passed
10	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1340	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1340	Passed
12	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1340	Passed
13	Direct KVM/ IP KVM Switch	ESXI 6.0 U2	Local Storage	VIC 1340	Passed

Cisco UCS B260 M4 Server

S.NO	Installation type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1380	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1380	Passed
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1380	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1380	Passed
5	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1380	Passed

S.NO	Installation type	Operating System	Storage	Adapter	Observation
6	Direct KVM/ IP KVM Switch	CentOS 7.0	Local Storage	VIC 1380	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1380	Passed
8	Direct KVM/ IP KVM Switch	ESXI 5.5 U2	Local Storage	VIC 1380	Passed
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1380	Passed
10	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1380	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1380	Passed
12	Direct KVM/ IP KVM Switch	ESXI 6.0 U2	Local Storage	VIC 1380	Passed

Cisco UCS B460 M4 Server

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1380	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1380	Passed
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1380	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1380	Passed
5	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1380	Passed
6	Direct KVM/ IP KVM Switch	CentOS 7.0	Local Storage	VIC 1380	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1380	Passed
8	Direct KVM/ IP KVM Switch	ESXI 5.5 U2	Local Storage	VIC 1380	Passed
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1380	Passed

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
10	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1380	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1380	Passed
12	Direct KVM/ IP KVM Switch	ESXI 6.0 U2	Local Storage	VIC 1380	Passed

Cisco UCS C220 M4 server in Standalone mode

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1227	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1227	Passed
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1227	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.0	Local Storage	VIC 1227	Passed
5	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1227	Passed
6	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1227	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.0	Local Storage	VIC 1227	Passed
8	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1227	Passed
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U2	Local Storage	VIC 1227	Passed
10	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1227	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1227	Passed
12	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1227	Passed
13	Direct KVM/ IP KVM Switch	ESXI 6.0 U2	Local Storage	VIC 1227	Passed

Cisco UCS C240 M4 Server in Standalone mode

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1227	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1227	Passed
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1227	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.0	Local Storage	VIC 1227	Passed
5	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1227	Passed
6	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1227	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.0	Local Storage	VIC 1227	Passed
8	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1227	Passed
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U2	Local Storage	VIC 1227	Passed
10	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1227	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1227	Passed
12	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1227	Passed
13	Direct KVM/ IP KVM Switch	ESXI 6.0 U2	Local Storage	VIC 1227	Passed

Cisco UCS C460 M4 Server in Standalone mode

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1225	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1225	Passed

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1225	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.0	Local Storage	VIC 1225	Passed
5	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1225	Passed
6	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1225	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.0	Local Storage	VIC 1225	Passed
8	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1225	Passed
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U2	Local Storage	VIC 1225	Passed
10	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1225	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1225	Passed
12	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1225	Passed
13	Direct KVM/ IP KVM Switch	ESXI 6.0 U2	Local Storage	VIC 1225	Passed

Cisco UCS C3160 Server in Standalone mode

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1227	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1227	Passed
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1227	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.0	Local Storage	VIC 1227	Passed
5	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1227	Passed

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
6	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1227	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.0	Local Storage	VIC 1227	Passed
8	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1227	Passed
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U2	Local Storage	VIC 1227	Passed
10	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1227	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1227	Passed
12	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1227	Passed
13	Direct KVM/ IP KVM Switch	ESXI 6.0 U2	Local Storage	VIC 1227	Passed

Cisco UCS C3260 Server in Standalone mode

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1300 SIOC	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1300 SIOC	Passed
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1300 SIOC	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.0	Local Storage	VIC 1300 SIOC	Passed
5	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1300 SIOC	Passed
6	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1300 SIOC	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.0	Local Storage	VIC 1300 SIOC	Passed
8	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1300 SIOC	Passed

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1300 SIOC	Passed
10	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1300 SIOC	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1300 SIOC	Passed
12	Direct KVM/ IP KVM Switch	ESXI 6.0 U2	Local Storage	VIC 1300 SIOC	Passed

Cisco UCS C220 M4 Server in UCSM Integrated mode

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1227	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1227	Passed
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1227	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.0	Local Storage	VIC 1227	Passed
5	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1227	Passed
6	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1227	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1227	Passed
8	Direct KVM/ IP KVM Switch	ESXI 5.5 U2	Local Storage	VIC 1227	Passed
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1227	Passed
10	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1227	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1227	Passed

Cisco UCS C240 M4 Server in UCSM Integrated mode

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1227	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1227	Passed
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1227	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.0	Local Storage	VIC 1227	Passed
5	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1227	Passed
6	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1227	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1227	Passed
8	Direct KVM/ IP KVM Switch	ESXI 5.5 U2	Local Storage	VIC 1227	Passed
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1227	Passed
10	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1227	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1227	Passed

Cisco UCS C460 M4 Server in UCSM Integrated mode

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
1	Direct KVM/ IP KVM Switch	Windows Server 2012	Local Storage	VIC 1225	Passed
2	Direct KVM/ IP KVM Switch	Windows Server 2012 R2	Local Storage	VIC 1225	Passed
3	Direct KVM/ IP KVM Switch	SUSE 12	Local Storage	VIC 1225	Passed
4	Direct KVM/ IP KVM Switch	RHEL 7.0	Local Storage	VIC 1225	Passed

S.NO	Installation Type	Operating System	Storage	Adapter	Observation
5	Direct KVM/ IP KVM Switch	RHEL 7.1	Local Storage	VIC 1225	Passed
6	Direct KVM/ IP KVM Switch	RHEL 7.2	Local Storage	VIC 1225	Passed
7	Direct KVM/ IP KVM Switch	CentOS 7.1	Local Storage	VIC 1225	Passed
8	Direct KVM/ IP KVM Switch	ESXI 5.5 U2	Local Storage	VIC 1225	Passed
9	Direct KVM/ IP KVM Switch	ESXI 5.5 U3	Local Storage	VIC 1225	Passed
10	Direct KVM/ IP KVM Switch	ESXI 6.0	Local Storage	VIC 1225	Passed
11	Direct KVM/ IP KVM Switch	ESXI 6.0 U1	Local Storage	VIC 1225	Passed

Issues Matrix

S.no	Bug ID	Bug Title
1	CSCuw14570	UCS B260 M4 and B460 M4 Blade servers showing wrong RAID Adaptor during OS installation

Related Documentation

Hardware and Software Interoperability Matrix

http://www.cisco.com/c/dam/en/us/td/docs/unified_computing/ucs/interoperability/matrix/b_hcl_C_rel-2-0-9.pdf

http://www.cisco.com/c/dam/en/us/td/docs/unified_computing/ucs/interoperability/matrix/b_hcl_C_rel-2-0-10.pdf

http://www.cisco.com/c/dam/en/us/td/docs/unified_computing/ucs/interoperability/matrix/b_hcl_B_rel3-11.pdf

Software Download

<https://software.cisco.com/download/navigator.html?mdfid=283612685&flowid=76422>

Raritan Dominion KX-iii IP switch specifications

http://ram.raritanassets.com/resources/data_sheets/raritan-ds-kxiii.pdf

CommandCenter-secure-gateway documentation

<http://support.raritan.com/commandcenter-secure-gateway/version-3.1.1/admin-guide/commandcenter-secure-gateway-v-3-1-1-admin-guide-0e-e.pdf>

Raritan Dominion KX-iii administration guide

<http://support.raritan.com/dominion-kx-iii/version-3.0.1/DKX3A-v3.0.1-0E-E.pdf>

