



Hardware and Software Interoperability Matrix

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

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For information about Fibre Channel Switch and Storage Array interoperability, consult the [Cisco UCS Storage Interoperability Matrix](#).

Audience

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

This document applies to the B Series Servers in Cisco Unified Computing System Release 1.4(3). The content of this document is updated on a regular basis. The current version was created on 2013-03-14.

Operating System Interoperability Matrix

Table 1 lists the operating systems that the Unified Computing System B Series Servers support.

Table 1: Operating System

UCS Blade Server	Vendor	Operating System Version	BIOS/Boot Code
B200 and B250 M2	Citrix	XenServer 5.6 FP1	
B200 and B250 M1	Microsoft	Windows Server 2003 x86 SP2	1
B200 and B250 M1	Microsoft	Windows Server 2003 x64 SP2	1
B200 and B250 M1	Microsoft	Windows Server 2003 R2 x86 SP2	1
B200 and B250 M1	Microsoft	Windows Server 2003 R2 x64 SP2	1
M1 and M2 for B200, B250, B230, and B440	Microsoft	Windows Server 2008 x64 SP1 including Hyper-V	1, 29
M1 and M2 for B200, B250, B230, and B440	Microsoft	Windows Server 2008 x64 SP2 including Hyper-V	1, 29
M1 and M2 for B200, B250, B230, and B440	Microsoft	Windows Server 2008 R2 x64 including Hyper-V	1, 29
M1 and M2 for B200, B250, B230, and B440	Microsoft	Windows Server 2008 R2 x64 SP1 including Hyper-V	1, 12, 29
B200 and B250 M1 & M2	Novell	SUSE Linux Enterprise Server 10.3 64bit	
B200 and B250 M1 & M2	Novell	SUSE Linux Enterprise Server 10.4 64bit	
M1 and M2 for B200, B250, B230, and B440	Novell	SUSE Linux Enterprise Server 11.1 64bit	28
B200 and B250 M1 & M2	Oracle	Linux 5.3 64bit	2, 18
B200 and B250 M1 & M2 and B440 M1	Oracle	Linux 5.4 64bit	16, 17, 18, 22
M1 and M2 for B200, B250, B230, and B440	Oracle	Linux 5.5 64bit	12

UCS Blade Server	Vendor	Operating System Version	BIOS/Boot Code
M1 and M2 for B200, B250, B230, and B440	Oracle	Linux 5.6 64bit	31
B200 and B250 M2	Oracle	Solaris 10 10/09	
B200 and B250 M1 & M2	Red Hat	Enterprise Linux 4.8 64bit	
B200 and B250 M1 & M2	Red Hat	Enterprise Linux 4.9 64bit	
B200 and B250 M1 & M2	Red Hat	Enterprise Linux 5.3 64bit	2, 18
B200 and B250 M1 & M2 and B440 M1	Red Hat	Enterprise Linux 5.4 64bit	16, 17, 18, 22
M1 and M2 for B200, B250, B230, and B440	Red Hat	Enterprise Linux 5.5 64bit	12
M1 and M2 for B200, B250, B230, and B440	Red Hat	Enterprise Linux 5.6 64bit	
B200 and B250 M2, B230 and B440 M1 & M2	Red Hat	Enterprise Linux 6.0 64bit	
B200 and B250 M2, B230 and B440 M1 & M2	Red Hat	Enterprise Linux 6.1 64bit	
B200 and B250 M1	VMware	vSphere 4.0	21
B200 and B250 M1	VMware	vSphere 4.0i	21
B200 and B250 M1 & M2 and B440 M1	VMware	vSphere 4.0 U1	5, 19, 20, 24
B200 and B250 M1 & M2 and B440 M1	VMware	vSphere 4.0i U1	5, 19, 20, 24
B200 and B250 M1 & M2, B230 and B440 M1	VMware	vSphere 4.0 U2	24
B200 and B250 M1 & M2, B230 and B440 M1	VMware	vSphere 4.0i U2	24, 25, 26
B200 and B250 M1 & M2, B230 and B440 M1	VMware	vSphere 4.0 U3	24

UCS Blade Server	Vendor	Operating System Version	BIOS/Boot Code
B200 and B250 M1 & M2, B230 and B440 M1	VMware	vSphere 4.0i U3	24, 32
B200 and B250 M1 & M2, B230 and B440 M1	VMware	vSphere 4.0 U4	24
B200 and B250 M1 & M2, B230 and B440 M1	VMware	vSphere 4.0i U4	24, 32
B200 and B250 M1 & M2, B230 and B440 M1	VMware	vSphere 4.1	24
B200 and B250 M1 & M2, B230 and B440 M1	VMware	vSphere 4.1i	24, 25, 26
M1 and M2 for B200, B250, B230, and B440	VMware	vSphere 4.1 U1	12, 24
M1 and M2 for B200, B250, B230, and B440	VMware	vSphere 4.1i U1	24, 25, 26
M1 and M2 for B200, B250, B230, and B440	VMware	vSphere 4.1 U2	12, 24
M1 and M2 for B200, B250, B230, and B440	VMware	vSphere 4.1i U2	24, 25, 26
B250 M2 and B200, B230 and B440 M1 & M2	VMware	vSphere 5.0	

Converged Network Adapter Interoperability Matrix

Table 2 lists the converged network adapters that the Unified Computing System B Series Servers support.

Table 2: Converged Network Adapters

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M2	UCS M81KR Virtual Interface Card	XenServer 5.6 FP1	1.4.0.145 / 1.4.1.5 (NIC)	1.4(3)	4, 10

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2 and B440 M1	UCS M81KR Virtual Interface Card	RHEL / OEL 5.4 64bit	1.1.1c / 1.4.1.5 (NIC)	1.4(3)	17
M1 and M2 for B200, B250, B230, and B440	UCS M81KR Virtual Interface Card	RHEL / OEL 5.5 64bit	1.4.0.145 / 1.4.1.5 (NIC)	1.4(3)	
M1 and M2 for B200, B250, B230, and B440	UCS M81KR Virtual Interface Card	RHEL / OL 5.6 64bit	1.4.0.145 / 1.4.1.5a (NIC)	1.4(3)	31
B200 and B250 M2, B230 and B440 M1 & M2	UCS M81KR Virtual Interface Card	RHEL / OL 6.0 64bit	1.4.0.145 / 1.4.1.5 (NIC)	1.4(3)	
B200 and B250 M2, B230 and B440 M1 & M2	UCS M81KR Virtual Interface Card	RHEL / OL 6.1 64bit	1.5.0.1 / 2.1.1.13 (NIC)	1.4(3)	10
M1 and M2 for B200, B250, B230, and B440	UCS M81KR Virtual Interface Card	SUSE Linux Enterprise Server 11.1 64bit	1.4.0.145 / 1.4.1.5 (NIC)	1.4(3)	28
B200 and B250 M1 & M2 and B440 M1	UCS M81KR Virtual Interface Card	vSphere 4.0 U1	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 25, 34
B200 and B250 M1 & M2 and B440 M1	UCS M81KR Virtual Interface Card	vSphere 4.0i U1	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 25, 34
B200 and B250 M1 & M2, B230 and B440 M1	UCS M81KR Virtual Interface Card	vSphere 4.0 U2	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 25, 34

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2, B230 and B440 M1	UCS M81KR Virtual Interface Card	vSphere 4.0i U2	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 25, 34
B200 and B250 M1 & M2, B230 and B440 M1	UCS M81KR Virtual Interface Card	vSphere 4.0 U3	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 25, 34
B200 and B250 M1 & M2, B230 and B440 M1	UCS M81KR Virtual Interface Card	vSphere 4.0i U3	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 26, 34
B200 and B250 M1 & M2, B230 and B440 M1	UCS M81KR Virtual Interface Card	vSphere 4.0 U4	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 25, 34
B200 and B250 M1 & M2, B230 and B440 M1	UCS M81KR Virtual Interface Card	vSphere 4.0i U4	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 26, 34
B200 and B250 M1 & M2, B230 and B440 M1	UCS M81KR Virtual Interface Card	vSphere 4.1	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 25, 34
B200 and B250 M1 & M2, B230 and B440 M1	UCS M81KR Virtual Interface Card	vSphere 4.1i	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 26, 34
M1 and M2 for B200, B250, B230, and B440	UCS M81KR Virtual Interface Card	vSphere 4.1 U1	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 25, 23, 34
M1 and M2 for B200, B250, B230, and B440	UCS M81KR Virtual Interface Card	vSphere 4.1i U1	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 26, 30, 34

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
M1 and M2 for B200, B250, B230, and B440	UCS M81KR Virtual Interface Card	vSphere 4.1 U2	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 25, 34
M1 and M2 for B200, B250, B230, and B440	UCS M81KR Virtual Interface Card	vSphere 4.1i U2	1.4.0.195 / 1.4.2.9 (NIC)	1.4(3)	14, 26, 30, 34
B250 M2 and B200, B230 and B440 M1 & M2	UCS M81KR Virtual Interface Card	vSphere 5.0	1.5.0.7 / 2.1.2.22 (NIC)	1.4(3)	34
B200 and B250 M1	UCS M81KR Virtual Interface Card	Windows Server 2003 R2 x86 SP2	2.0.1.6 / 2.0.1.3 (NIC)	1.4(3)	
M1 and M2 for B200, B250, B230, and B440	UCS M81KR Virtual Interface Card	Windows Server 2008 x64 SP2	2.0.1.7 / 2.0.1.3 (NIC)	1.4(3)	
M1 and M2 for B200, B250, B230, and B440	UCS M81KR Virtual Interface Card	Windows Server 2008 R2 x64	2.0.1.7 / 2.0.1.3 (NIC)	1.4(3)	
M1 and M2 for B200, B250, B230, and B440	UCS M81KR Virtual Interface Card	Windows Server 2008 R2 x64 SP1	2.0.1.7 / 2.0.1.3 (NIC)	1.4(3)	
B200 and B250 M1 & M2	UCS M72KR-E Converged Network Adapter	RHEL / OEL 5.3 64bit	8.2.0.78.4p / 2.102.435.2 (NIC)	2.702.517.6	
B200 and B250 M1 & M2 and B440 M1	UCS M72KR-E Converged Network Adapter	RHEL / OEL 5.4 64bit	8.2.0.78.4p / 2.102.435.0 (NIC)	2.702.517.6	
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-E Converged Network Adapter	RHEL / OEL 5.5 64bit	8.2.0.78.4p / 2.102.435.0 (NIC)	2.702.517.6	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-E Converged Network Adapter	RHEL / OL 5.6 64bit	8.2.0.87.1p / 2.102.518r (NIC)	2.702.517.6	31
B200 and B250 M2, B230 and B440 M1 & M2	UCS M72KR-E Converged Network Adapter	RHEL / OL 6.0 64bit	8.3.5.17 / 2.102.426r (NIC)	2.702.517.6	
B200 and B250 M2, B230 and B440 M1 & M2	UCS M72KR-E Converged Network Adapter	RHEL / OL 6.1 64bit	8.3.5.30.1p / 2.103.298r (NIC)	2.702.517.6	
B200 and B250 M1 & M2	UCS M72KR-E Converged Network Adapter	SUSE Linux Enterprise Server 10.3 64bit	8.2.0.78.4p / 2.102.435.0 (NIC)	2.702.517.6	
B200 and B250 M1 & M2	UCS M72KR-E Converged Network Adapter	SUSE Linux Enterprise Server 10.4 64bit	8.2.0.92.1p / 2.102.435s (NIC)	2.702.517.6	
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-E Converged Network Adapter	SUSE Linux Enterprise Server 11.1 64bit	8.3.5.15.4p / 2.102.435.0 (NIC)	2.702.517.6	28
B200 and B250 M1	UCS M72KR-E Converged Network Adapter	vSphere 4.0	8.2.0.79.25 / 2.102.440.0 (NIC)	2.702.517.6	25
B200 and B250 M1 & M2 and B440 M1	UCS M72KR-E Converged Network Adapter	vSphere 4.0 U1	8.2.0.79.25 / 2.102.440.0 (NIC)	2.702.517.6	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-E Converged Network Adapter	vSphere 4.0 U2	8.2.0.79.25 / 2.102.440.0 (NIC)	2.702.517.6	26

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-E Converged Network Adapter	vSphere 4.0i U2	8.2.0.79.25 / 2.102.440.0 (NIC)	2.702.517.6	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-E Converged Network Adapter	vSphere 4.0 U3	8.2.0.79.25 / 2.102.440.0 (NIC)	2.702.517.6	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-E Converged Network Adapter	vSphere 4.0i U3	8.2.0.79.25 / 2.102.440.0 (NIC)	2.702.517.6	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-E Converged Network Adapter	vSphere 4.0 U4	8.2.0.79.25 / 2.102.440.0 (NIC)	2.702.517.6	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-E Converged Network Adapter	vSphere 4.0i U4	8.2.0.79.25 / 2.102.440.0 (NIC)	2.702.517.6	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-E Converged Network Adapter	vSphere 4.1	8.2.1.79.25 / 2.102.440.0 (NIC)	2.702.517.6	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-E Converged Network Adapter	vSphere 4.1i	8.2.1.79.25 / 2.102.440.0 (NIC)	2.702.517.6	26
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-E Converged Network Adapter	vSphere 4.1 U1	8.2.1.79.25 / 2.102.440.0 (NIC)	2.702.517.6	25
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-E Converged Network Adapter	vSphere 4.1i U1	8.2.1.79.25 / 2.102.440.0 (NIC)	2.702.517.6	26

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-E Converged Network Adapter	vSphere 4.1 U2	8.2.1.79.25 / 2.102.440.0 (NIC)	2.702.517.6	25
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-E Converged Network Adapter	vSphere 4.1i U2	8.2.1.79.25 / 2.102.440.0 (NIC)	2.702.517.6	26
B200 and B250 M1	UCS M72KR-E Converged Network Adapter	Windows Server 2003 R2 x64 SP2	7.2.33.901 / 2.102.435.0 (NIC)	2.702.517.6	
B200 and B250 M1	UCS M72KR-E Converged Network Adapter	Windows Server 2003 R2 x86 SP2	5.2.33.901 / 2.102.435.0 (NIC)	2.702.517.6	
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-E Converged Network Adapter	Windows Server 2008 x64	7.2.33.901 / 2.102.435.0 (NIC)	2.702.517.6	
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-E Converged Network Adapter	Windows Server 2008 R2 x64	7.2.33.901 / 2.102.435.0 (NIC)	2.702.517.6	
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-E Converged Network Adapter	Windows Server 2008 R2 x64 SP1	7.2.33.901 / 2.102.435.0 (NIC)	2.702.517.6	
B200 and B250 M1 & M2	UCS M71KR-E Converged Network Adapter	Enterprise Linux 4.8 64bit	8.0.16.46	2.80a4	8, 13
B200 and B250 M1 & M2	UCS M71KR-E Converged Network Adapter	Enterprise Linux 4.9 64bit	8.0.10.47	2.80a4	8, 13
B200 and B250 M1 & M2	UCS M71KR-E Converged Network Adapter	RHEL / OEL 5.3 64bit	8.2.0.78.4p	2.80a4	8, 13

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	RHEL / OEL 5.4 64bit	8.2.0.78.4p	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	RHEL / OEL 5.5 64bit	8.2.0.78.4p	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	RHEL / OL 5.6 64bit	8.2.0.87.1p	2.80a4	8, 13, 31
B200 and B250 M1 & M2	UCS M71KR-E Converged Network Adapter	SUSE Linux Enterprise Server 10.3 64bit	8.2.0.78.4p	2.80a4	8, 13
B200 and B250 M1 & M2	UCS M71KR-E Converged Network Adapter	SUSE Linux Enterprise Server 10.4 64bit	8.2.0.92.1p	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	SUSE Linux Enterprise Server 11.1 64bit	8.3.5.15	2.80a4	8, 13, 28
B200 and B250 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.0	8.2.0.30.49vmw	2.80a4	8, 13
B200 and B250 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.0i	8.2.0.30.49vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.0 U1	8.2.0.30.52vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.0i U1	8.2.0.30.52vmw	2.80a4	8, 13

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.0 U2	8.2.0.30.52vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.0i U2	8.2.0.30.52vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.0 U3	8.2.0.30.52vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.0i U3	8.2.0.30.52vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.0 U4	8.2.0.30.52vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.0i U4	8.2.0.30.52vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.1	8.2.1.30.1-58vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.1i	8.2.1.30.1-58vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.1 U1	8.2.1.30.1-58vmw	2.80a4	8, 13

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.1i U1	8.2.1.30.1-58vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.1 U2	8.2.1.30.1-58vmw	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	vSphere 4.1i U2	8.2.1.30.1-58vmw	2.80a4	8, 13
B200 and B250 M1	UCS M71KR-E Converged Network Adapter	Windows Server 2003 R2 x64 SP2	7.2.33.901	2.80a4	8, 13
B200 and B250 M1	UCS M71KR-E Converged Network Adapter	Windows Server 2003 R2 x86 SP2	5.2.33.901	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	Windows Server 2008 x64	7.2.33.901	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	Windows Server 2008 R2 x64	7.2.33.901	2.80a4	8, 13
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-E Converged Network Adapter	Windows Server 2008 R2 x64 SP1	7.2.33.901	2.80a4	8, 13
B200 and B250 M1 & M2	UCS M72KR-Q Converged Network Adapter	RHEL / OEL 5.3 64bit	8.03.00.09.05.04-k / 1.0.00.23 (NIC)	5.03.06	
B200 and B250 M1 & M2 and B440 M1	UCS M72KR-Q Converged Network Adapter	RHEL / OEL 5.4 64bit	8.03.00.10.05.04-k / 1.0.00.23 (NIC)	5.03.06	10

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-Q Converged Network Adapter	RHEL / OEL 5.5 64bit	8.03.01.04.05.05-k / 1.0.00.23 (NIC)	5.03.06	
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-Q Converged Network Adapter	RHEL / OL 5.6 64bit	8.03.01.05.05.06-k / 1.0.00.25 (NIC)	5.03.06	31
B200 and B250 M2, B230 and B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	RHEL / OL 6.0 64bit	8.03.01.05.06.0-k8 / 1.00.00.23 (NIC)	5.03.06	
B200 and B250 M2, B230 and B440 M1 & M2	UCS M72KR-Q Converged Network Adapter	RHEL / OL 6.1 64bit	8.03.07.03.06.1-k / 1.00.00.27 (NIC)	5.03.06	
B200 and B250 M1 & M2	UCS M72KR-Q Converged Network Adapter	SUSE Linux Enterprise Server 10.3 64bit	8.03.00.10.10.3-k4 / 1.0.00.23 (NIC)	5.03.06	10
B200 and B250 M1 & M2	UCS M72KR-Q Converged Network Adapter	SUSE Linux Enterprise Server 10.4 64bit	8.03.01.12.10.3-k4 / 1.0.00.23 (NIC)	5.03.06	
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-Q Converged Network Adapter	SUSE Linux Enterprise Server 11.1 64bit	8.03.04.14.11.1-k0 / 1.00.00.23.00.00.1 (NIC)	5.03.06	28
B200 and B250 M1	UCS M72KR-Q Converged Network Adapter	vSphere 4.0	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	25
B200 and B250 M1 & M2 and B440 M1	UCS M72KR-Q Converged Network Adapter	vSphere 4.0 U1	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	25

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-Q Converged Network Adapter	vSphere 4.0 U2	832.k1.27vmw / 1.0.0.43 (NIC)	5.03.06	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-Q Converged Network Adapter	vSphere 4.0i U2	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-Q Converged Network Adapter	vSphere 4.0 U3	832.k1.27vmw / 1.0.0.43 (NIC)	5.03.06	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-Q Converged Network Adapter	vSphere 4.0i U3	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-Q Converged Network Adapter	vSphere 4.0 U4	832.k1.27vmw / 1.0.0.43 (NIC)	5.03.06	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-Q Converged Network Adapter	vSphere 4.0i U4	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-Q Converged Network Adapter	vSphere 4.1	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M72KR-Q Converged Network Adapter	vSphere 4.1i	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	26
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-Q Converged Network Adapter	vSphere 4.1 U1	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	25

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-Q Converged Network Adapter	vSphere 4.1i U1	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	26
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-Q Converged Network Adapter	vSphere 4.1 U2	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	25
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-Q Converged Network Adapter	vSphere 4.1i U2	832.k1.27vmw / 1.0.0.39 (NIC)	5.03.06	26
B200 and B250 M1	UCS M72KR-Q Converged Network Adapter	Windows Server 2003 R2 x64 SP2	9.1.8.27 / 1.0.1.2 (NIC)	5.03.06	
B200 and B250 M1	UCS M72KR-Q Converged Network Adapter	Windows Server 2003 R2 x86 SP2	9.1.8.27 / 1.0.1.2 (NIC)	5.03.06	
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-Q Converged Network Adapter	Windows Server 2008 x64	9.1.8.27 / 1.0.1.2 (NIC)	5.03.06	
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-Q Converged Network Adapter	Windows Server 2008 R2 x64	9.1.8.27 / 1.0.1.2 (NIC)	5.03.06	
M1 and M2 for B200, B250, B230, and B440	UCS M72KR-Q Converged Network Adapter	Windows Server 2008 R2 x64 SP1	9.1.8.27 / 1.0.1.2 (NIC)	5.03.06	
B200 and B250 M1 & M2	UCS M71KR-Q Converged Network Adapter	Enterprise Linux 4.8 64bit	8.02.09.02.04.08-d	4.03.01	8, 13, 27
B200 and B250 M1 & M2	UCS M71KR-Q Converged Network Adapter	Enterprise Linux 4.9 64bit	8.02.10.01.04.09-d	4.03.01	8, 13, 27

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2	UCS M71KR-Q Converged Network Adapter	RHEL / OEL 5.3 64bit	8.03.00.09.05.04-k	4.03.01	8, 13, 27, 33
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	RHEL / OEL 5.4 64bit	8.03.00.10.05.04-k	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	RHEL / OEL 5.5 64bit	8.03.01.04.05.05-k	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	RHEL / OL 5.6 64bit	8.03.01.05.05.06-k	4.03.01	8, 13, 27, 31
B200 and B250 M2	UCS M71KR-Q Converged Network Adapter	Solaris 10 10/09	20090519-2.31	4.03.01	
B200 and B250 M1 & M2	UCS M71KR-Q Converged Network Adapter	SUSE Linux Enterprise Server 10.3 64bit	8.03.00.10.10.3-k4	4.03.01	8, 13, 27
B200 and B250 M1 & M2	UCS M71KR-Q Converged Network Adapter	SUSE Linux Enterprise Server 10.4 64bit	8.03.01.12.10.3-k4	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	SUSE Linux Enterprise Server 11.1 64bit	8.03.04.14.11.1-k0	4.03.01	8, 13, 27, 28
B200 and B250 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.0	8.02.01-k1-vmw38	4.03.01	8, 13, 27
B200 and B250 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.0i	8.02.01-k1-vmw38	4.03.01	8, 13, 27

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.0 U1	8.02.01-k1-vmw43	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.0i U1	8.02.01-k1-vmw43	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.0 U2	8.02.01-k1-vmw48	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.0i U2	8.02.01-k1-vmw48	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.0 U3	8.02.01-k1-vmw48	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.0i U3	8.02.01-k1-vmw48	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.0 U4	8.02.01-k1-vmw48	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.0i U4	8.02.01-k1-vmw48	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.1	831.k1.28.1-lvmw	4.03.01	8, 13, 27

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.1i	831.k1.28.1-1vmw	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.1 U1	831.k1.28.1-1vmw	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.1i U1	831.k1.28.1-1vmw	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.1 U2	831.k1.28.1-1vmw	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	vSphere 4.1i U2	831.k1.28.1-1vmw	4.03.01	8, 13, 27
B200 and B250 M1	UCS M71KR-Q Converged Network Adapter	Windows Server 2003 R2 x64 SP2	9.1.8.27	4.03.01	8, 13, 27
B200 and B250 M1	UCS M71KR-Q Converged Network Adapter	Windows Server 2003 R2 x86 SP2	9.1.8.27	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	Windows Server 2008 x64	9.1.8.27	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	Windows Server 2008 R2 x64	9.1.8.27	4.03.01	8, 13, 27
B200 and B250 M1 & M2 and B440 M1	UCS M71KR-Q Converged Network Adapter	Windows Server 2008 R2 x64 SP1	9.1.8.27	4.03.01	8, 13, 27

Network Interface Card Interoperability Matrix

Table 3 lists the network interface cards that the Unified Computing System B Series Servers support.

Table 3: Network Interface Cards

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	Enterprise Linux 4.8 64bit	1.52.17	5.2.7.12.1	
B200 and B250 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	Enterprise Linux 4.9 64bit	1.52.17	5.2.7.12.1	
B200 and B250 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	RHEL / OEL 5.3 64bit	1.52.17	5.2.7.12.1	
B200 and B250 M1 & M2 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	RHEL / OEL 5.4 64bit	1.52.17	5.2.7.12.1	
M1 and M2 for B200, B250, B230, and B440	UCS M51KR-B 10-Gigabit Ethernet Adapter	RHEL / OEL 5.5 64bit	1.60.51 / 2.1.3b (iSCSI)	5.2.7.12.1	12
M1 and M2 for B200, B250, B230, and B440	UCS M51KR-B 10-Gigabit Ethernet Adapter	RHEL / OL 5.6 64bit	1.52.53-4	5.2.7.12.1	31
B200 and B250 M2, B230 and B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	RHEL / OL 6.0 64bit	1.60.51	5.2.7.12.1	
B200 and B250 M2, B230 and B440 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	RHEL / OL 6.1 64bit	1.62.00-6	5.2.7.12.1	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	SUSE Linux Enterprise Server 10.3 64bit	1.52.17	5.2.7.12.1	
B200 and B250 M1 & M2	UCS M51KR-B 10-Gigabit Ethernet Adapter	SUSE Linux Enterprise Server 10.4 64bit	1.62.00-3	5.2.7.12.1	
M1 and M2 for B200, B250, B230, and B440	UCS M51KR-B 10-Gigabit Ethernet Adapter	SUSE Linux Enterprise Server 11.1 64bit	1.60.51	5.2.7.12.1	
B200 and B250 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.0	1.52.12.v40.3	5.2.7.12.1	25
B200 and B250 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.0i	1.52.12.v40.3	5.2.7.12.1	25
B200 and B250 M1 & M2 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.0 U1	1.52.12.v40.3	5.2.7.12.1	25
B200 and B250 M1 & M2 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.0i U1	1.52.12.v40.3	5.2.7.12.1	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.0 U2	1.62.11.v40.1	5.2.7.12.1	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.0i U2	1.52.12.v40.3	5.2.7.12.1	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.0 U3	1.62.11.v40.1	5.2.7.12.1	25

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2, B230 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.0i U3	1.52.12.v40.3	5.2.7.12.1	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.0 U4	1.62.11.v40.1	5.2.7.12.1	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.0i U4	1.52.12.v40.3	5.2.7.12.1	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.1	1.60.50.v41.2	5.2.7.12.1	25
B200 and B250 M1 & M2, B230 and B440 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.1i	1.60.50.v41.2	5.2.7.12.1	26
M1 and M2 for B200, B250, B230, and B440	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.1 U1	1.60.50.v41.2 (iSCSI also)	5.2.7.12.1	12, 25
M1 and M2 for B200, B250, B230, and B440	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.1i U1	1.60.50.v41.2	5.2.7.12.1	26
M1 and M2 for B200, B250, B230, and B440	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.1 U2	1.60.50.v41.2 (iSCSI also)	5.2.7.12.1	12, 25
M1 and M2 for B200, B250, B230, and B440	UCS M51KR-B 10-Gigabit Ethernet Adapter	vSphere 4.1i U2	1.60.50.v41.2	5.2.7.12.1	26

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	Windows Server 2003 R2 x64 SP2	6.0.27.0	5.2.7.12.1	
B200 and B250 M1	UCS M51KR-B 10-Gigabit Ethernet Adapter	Windows Server 2003 R2 x86 SP2	6.0.27.0	5.2.7.12.1	
M1 and M2 for B200, B250, B230, and B440	UCS M51KR-B 10-Gigabit Ethernet Adapter	Windows Server 2008 x64	6.0.29.0	5.2.7.12.1	
M1 and M2 for B200, B250, B230, and B440	UCS M51KR-B 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 x64	6.0.29.0	5.2.7.12.1	
M1 and M2 for B200, B250, B230, and B440	UCS M51KR-B 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 x64 SP1	6.0.29.0 / 6.0.12.0 (iSCSI)	5.2.7.12.1	12
B200 and B250 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	Enterprise Linux 4.8 64bit	3.2.9	2.1.60.1.1	
B200 and B250 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	Enterprise Linux 4.9 64bit	3.2.9	2.1.60.1.1	
B200 and B250 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	RHEL / OEL 5.3 64bit	3.2.9	2.1.60.1.1	
B200 and B250 M1 & M2 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	RHEL / OEL 5.4 64bit	3.2.9	2.1.60.1.1	
M1 and M2 for B200, B250, B230, and B440	UCS M61KR-I 10-Gigabit Ethernet Adapter	RHEL / OEL 5.5 64bit	3.2.9	2.1.60.1.1	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
M1 and M2 for B200, B250, B230, and B440	UCS M61KR-I 10-Gigabit Ethernet Adapter	RHEL / OL 5.6 64bit	3.2.9	2.1.60.1.1	31
B200 and B250 M2, B230 and B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	RHEL / OL 6.0 64bit	3.2.9	2.1.60.1.1	
B200 and B250 M2, B230 and B440 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	RHEL / OL 6.1 64bit	3.3.9	2.1.60.1.1	
B200 and B250 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	SUSE Linux Enterprise Server 10.3 64bit	3.2.9	2.1.60.1.1	
B200 and B250 M1 & M2	UCS M61KR-I 10-Gigabit Ethernet Adapter	SUSE Linux Enterprise Server 10.4 64bit	3.2.9	2.1.60.1.1	
M1 and M2 for B200, B250, B230, and B440	UCS M61KR-I 10-Gigabit Ethernet Adapter	SUSE Linux Enterprise Server 11.1 64bit	3.2.9	2.1.60.1.1	
B200 and B250 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.0	2.0.84.9	2.1.60.1.1	25
B200 and B250 M1 & M2 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.0 U1	2.0.84.9	2.1.60.1.1	25
B200 and B250 M1 & M2 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.0i U1	2.0.84.9	2.1.60.1.1	25

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2, B230 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.0 U2	2.0.84.9	2.1.60.1.1	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.0i U2	2.0.84.9	2.1.60.1.1	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.0 U3	2.0.84.9	2.1.60.1.1	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.0i U3	2.0.84.9	2.1.60.1.1	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.0 U4	2.0.84.9	2.1.60.1.1	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.0i U4	2.0.84.9	2.1.60.1.1	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.1	2.0.84.9	2.1.60.1.1	26
B200 and B250 M1 & M2, B230 and B440 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.1i	2.0.84.9	2.1.60.1.1	26
M1 and M2 for B200, B250, B230, and B440	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.1 U1	2.0.84.9	2.1.60.1.1	26

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
M1 and M2 for B200, B250, B230, and B440	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.1i U1	2.0.84.9	2.1.60.1.1	26
M1 and M2 for B200, B250, B230, and B440	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.1 U2	2.0.84.9	2.1.60.1.1	26
M1 and M2 for B200, B250, B230, and B440	UCS M61KR-I 10-Gigabit Ethernet Adapter	vSphere 4.1i U2	2.0.84.9	2.1.60.1.1	26
B200 and B250 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	Windows Server 2003 R2 x64 SP2	2.4.55.0	2.1.60.1.1	
B200 and B250 M1	UCS M61KR-I 10-Gigabit Ethernet Adapter	Windows Server 2003 R2 x86 SP2	2.4.55.0	2.1.60.1.1	
M1 and M2 for B200, B250, B230, and B440	UCS M61KR-I 10-Gigabit Ethernet Adapter	Windows Server 2008 x64	2.7.28.0	2.1.60.1.1	
M1 and M2 for B200, B250, B230, and B440	UCS M61KR-I 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 x64	2.7.28.0	2.1.60.1.1	
M1 and M2 for B200, B250, B230, and B440	UCS M61KR-I 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 x64 SP1	2.7.28.0	2.1.60.1.1	
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Enterprise Linux 4.8 64bit	3.2.9		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Enterprise Linux 4.9 64bit	3.2.9		11

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	RHEL / OEL 5.3 64bit	3.2.9		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	RHEL / OEL 5.4 64bit	3.2.9		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	RHEL / OEL 5.5 64bit	3.2.9		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	RHEL / OL 5.6 64bit	3.2.9		11, 31
B200 and B250 M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Solaris 10 10/09	1.0.8		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	SUSE Linux Enterprise Server 10.3 64bit	3.2.9		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	SUSE Linux Enterprise Server 10.4 64bit	3.2.9		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	SUSE Linux Enterprise Server 11.1 64bit	3.2.9		
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.0	1.3.36		11
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.0i	1.3.36		11
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.0 U1	1.3.36		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.0i U1	1.3.36		11

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.0 U2	2.0.38.2.5-2vmw		
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.0i U2	2.0.38.2.5-2vmw		
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.0 U3	2.0.38.2.5-2vmw		
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.0i U3	2.0.38.2.5-2vmw		
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.0 U4	2.0.38.2.5-2vmw		
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.0i U4	2.0.38.2.5-2vmw		
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.1	2.0.38.2.5.1-1vmw		
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.1i	2.0.38.2.5.1-1vmw		
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.1 U1	2.0.38.2.5.1-1vmw		
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.1i U1	2.0.38.2.5.1-1vmw		
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.1 U2	2.0.38.2.5.1-1vmw		
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	vSphere 4.1i U2	2.0.38.2.5.1-1vmw		

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Windows Server 2003 R2 x64 SP2	2.4.55.0		11
B200 and B250 M1	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Windows Server 2003 R2 x86 SP2	2.4.55.0		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Windows Server 2008 x64	2.7.28.0		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 x64	2.7.28.0		11
B200 and B250 M1 & M2	UCS 82598KR-CI 10-Gigabit Ethernet Adapter	Windows Server 2008 R2 x64 SP1	2.7.28.0		11

RAID Controller on Motherboard or PCIe Adapter Interoperability Matrix

Table 4 lists the RAID controller on motherboard or PCIe adapters that the Unified Computing System B Series Servers support.

Table 4: RAID Controller on Motherboard or PCIe Adapters

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	XenServer 5.6 FP1	4.22.00.00	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Enterprise Linux 4.8 64bit	3.12.29.00rh	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Enterprise Linux 4.9 64bit	3.12.29.00rh	01.28.03.00	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	RHEL / OEL 5.3 64bit	3.04.07	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	RHEL / OEL 5.4 64bit	3.04.07rh	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	RHEL / OEL 5.5 64bit	3.0.4.13rh	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	RHEL / OL 5.6 64bit	3.0.4.15rh	01.28.03.00	31
B200 and B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	RHEL / OL 6.0 64bit	3.04.16	01.28.03.00	
B200 and B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	RHEL / OL 6.1 64bit	3.04.18	01.28.03.00	
B200 and B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Solaris 10 10/09	1.92	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	SUSE Linux Enterprise Server 10.3 64bit	3.04.07_suse	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	SUSE Linux Enterprise Server 10.4 64bit	3.04.17_suse	01.28.03.00	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	SUSE Linux Enterprise Server 11.1 64bit	4.22.00.00	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.0	4.00.37.00.23vmw	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.0i	4.00.37.00.23vmw	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.0 U1	4.00.37.00.27vmw	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.0i U1	4.00.37.00.27vmw	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.0 U2	4.00.37.00.29vmw	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.0i U2	4.00.37.00.29vmw	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.0 U3	4.00.37.00.29vmw	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.0i U3	4.00.37.00.29vmw	01.28.03.00	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.0 U4	4.00.37.00.29vmw	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.0i U4	4.00.37.00.29vmw	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.1	4.21.00.01.1-5vmw	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.1i	4.21.00.01.1-5vmw	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.1 U1	4.21.00.01.1-5vmw	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.1i U1	4.21.00.01.1-5vmw	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.1 U2	4.21.00.01.1-5vmw	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 4.1i U2	4.21.00.01.1-5vmw	01.28.03.00	
B200 M1, B200 & B250 M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	vSphere 5.0	4.23.01.00-5	01.28.03.00	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	Windows Server 2003 R2 x64 SP2	1.29.03.00	01.28.03.00	
B200 and B250 M1	LSI Logic SAS1064E PCI-Express Fusion-MPT	Windows Server 2003 R2 x86 SP2	1.29.03.00	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Windows Server 2008 x64	1.29.03.00	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Windows Server 2008 R2 x64	1.28.3.52	01.28.03.00	
B200 and B250 M1 & M2	LSI Logic SAS1064E PCI-Express Fusion-MPT	Windows Server 2008 R2 x64 SP1	1.28.3.52	01.28.03.00	
B230 M1 & M2	LSI Logic MegaSAS 9240	RHEL / OEL 5.5 64bit	00.00.04.31	20.7.1-0024	
B230 M1 & M2	LSI Logic MegaSAS 9240	RHEL / OL 5.6 64bit	00.00.04.31	20.7.1-0024	31
B230 M1 & M2	LSI Logic MegaSAS 9240	RHEL / OL 6.0 64bit	00.00.04.28	20.7.1-0024	
B230 M1 & M2	LSI Logic MegaSAS 9240	RHEL / OL 6.1 64bit	00.00.05.34-rc1	20.7.1-0024	
B230 M1 & M2	LSI Logic MegaSAS 9240	SUSE Linux Enterprise Server 11.1 64bit	00.00.04.31	20.7.1-0024	
B230 M1	LSI Logic MegaSAS 9240	vSphere 4.0 U2	4.32	20.7.1-0024	14, 15, 25
B230 M1	LSI Logic MegaSAS 9240	vSphere 4.0i U2	4.32	20.7.1-0024	14, 15, 25

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B230 M1	LSI Logic MegaSAS 9240	vSphere 4.0 U3	4.32	20.7.1-0024	14, 15, 25
B230 M1	LSI Logic MegaSAS 9240	vSphere 4.0i U3	4.32	20.7.1-0024	14, 15, 26
B230 M1	LSI Logic MegaSAS 9240	vSphere 4.0 U4	4.32	20.7.1-0024	14, 15, 25
B230 M1	LSI Logic MegaSAS 9240	vSphere 4.0i U4	4.32	20.7.1-0024	14, 15, 26
B230 M1	LSI Logic MegaSAS 9240	vSphere 4.1	4.32	20.7.1-0024	14, 15, 25
B230 M1	LSI Logic MegaSAS 9240	vSphere 4.1i	4.32	20.7.1-0024	14, 15, 26
B230 M1 & M2	LSI Logic MegaSAS 9240	vSphere 4.1 U1	4.32	20.7.1-0024	14, 15, 25
B230 M1 & M2	LSI Logic MegaSAS 9240	vSphere 4.1i U1	4.32	20.7.1-0024	14, 15, 26
B230 M1 & M2	LSI Logic MegaSAS 9240	vSphere 4.1 U2	4.32	20.7.1-0024	14, 15, 25
B230 M1 & M2	LSI Logic MegaSAS 9240	vSphere 4.1i U2	4.32	20.7.1-0024	14, 15, 26
B230 M1 & M2	LSI Logic MegaSAS 9240	vSphere 5.0	04.32.1	20.7.1-0024	26
B230 M1 & M2	LSI Logic MegaSAS 9240	Windows Server 2008 x64	4.32.0.64	20.7.1-0024	
B230 M1 & M2	LSI Logic MegaSAS 9240	Windows Server 2008 R2 x64	4.32.0.64	20.7.1-0024	
B230 M1 & M2	LSI Logic MegaSAS 9240	Windows Server 2008 R2 x64 SP1	4.32.0.64	20.7.1-0024	
B440 M1	LSI Logic MegaSAS 9260	RHEL / OEL 5.4 64bit	00.00.04.31	12.9.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 9260	RHEL / OEL 5.5 64bit	00.00.04.31	12.9.0-0050	

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B440 M1 & M2	LSI Logic MegaSAS 9260	RHEL / OL 5.6 64bit	00.00.04.31	12.9.0-0050	31
B440 M1 & M2	LSI Logic MegaSAS 9260	RHEL / OL 6.0 64bit	00.00.04.28	12.9.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 9260	RHEL / OL 6.1 64bit	00.00.05.34-rc1	12.9.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 9260	SUSE Linux Enterprise Server 11.1 64bit	00.00.04.31	12.9.0-0050	
B440 M1	LSI Logic MegaSAS 9260	vSphere 4.0 U1	4.32	12.9.0-0050	25
B440 M1	LSI Logic MegaSAS 9260	vSphere 4.0i U1	4.32	12.9.0-0050	25
B440 M1	LSI Logic MegaSAS 9260	vSphere 4.0 U2	4.32	12.9.0-0050	26
B440 M1	LSI Logic MegaSAS 9260	vSphere 4.0i U2	4.32	12.9.0-0050	26
B440 M1	LSI Logic MegaSAS 9260	vSphere 4.0 U3	4.32	12.9.0-0050	26
B440 M1	LSI Logic MegaSAS 9260	vSphere 4.0i U3	4.32	12.9.0-0050	26
B440 M1	LSI Logic MegaSAS 9260	vSphere 4.0 U4	4.32	12.9.0-0050	26
B440 M1	LSI Logic MegaSAS 9260	vSphere 4.0i U4	4.32	12.9.0-0050	26
B440 M1	LSI Logic MegaSAS 9260	vSphere 4.1	4.32	12.9.0-0050	25
B440 M1	LSI Logic MegaSAS 9260	vSphere 4.1i	4.32	12.9.0-0050	26
B440 M1 & M2	LSI Logic MegaSAS 9260	vSphere 4.1 U1	4.32	12.9.0-0050	25

UCS Blade Server	Adapter Model	Operating System	Adapter Driver	Adapter Firmware	Adapter Boot Code / BIOS
B440 M1 & M2	LSI Logic MegaSAS 9260	vSphere 4.1i U1	4.32	12.9.0-0050	26
B440 M1 & M2	LSI Logic MegaSAS 9260	vSphere 4.1 U2	4.32	12.9.0-0050	25
B440 M1 & M2	LSI Logic MegaSAS 9260	vSphere 4.1i U2	4.32	12.9.0-0050	26
B440 M1 & M2	LSI Logic MegaSAS 9260	vSphere 5.0	04.32.1vmw	12.9.0-0050	26
B440 M1 & M2	LSI Logic MegaSAS 9260	Windows Server 2008 x64	4.32.0.64	12.9.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 9260	Windows Server 2008 R2 x64	4.32.0.64	12.9.0-0050	
B440 M1 & M2	LSI Logic MegaSAS 9260	Windows Server 2008 R2 x64 SP1	4.32.0.64	12.9.0-0050	

Notes

- 1 Requires Intel 55xx chipset drivers from download.intel.com
- 2 RHEL errata kernel 2.6.18-128.1.6 (or newer) is required due to advisory RHSA-2009:0326
- 3 SSI Mode Only
- 4 Driver required for installation not included in OS image
- 5 Nehalem EX processor family require Patch05 or later
- 6 Non-default adapter settings are typically required by storage vendors and found on their support list
- 7 Multiple array and switch models supported with UCS by the storage vendor are on their support list
- 8 Fiber Channel Storage that supports equivalent adapters and drivers is supported by UCS. UCS M71KR-E is equivalent to Emulex LP2100x, UCS M71KR-Q is equivalent to QLogic QLE804x
- 9 Driver not included in OS image, download from Cisco or OS vendor and install driver to enable device access
- 10 Driver included in OS image should be updated, download from Cisco or OS vendor and install driver to enable device access
- 11 iSCSI Storage that supports equivalent adapters and driver is supported by UCS. UCS 82598KR-CI is equivalent to Intel 82598EB 10 Gigabit Ethernet Controller
- 12 iSCSI Boot tested (see adapter listing for required driver), however, it has not been certified by storage partners and is not UCSM supported

- 13 Refer to the UCS 82598KR-CI 10-Gigabit Ethernet Adapter for the supported Ethernet driver on this Converged Network Adapter
- 14 Certification is pending for supported driver
- 15 Known issues with inbox driver, update to supported driver as soon as installation is finished
- 16 Xen kernel supported with workarounds as stated in: <http://kbase.redhat.com/faq/docs/DOC-23816>
- 17 Xen kernel supported with workarounds as stated in: <http://kbase.redhat.com/faq/docs/DOC-22147>
- 18 Loading multiple driver disks during a RHEL 5.x installation fails
<http://kbase.redhat.com/faq/docs/DOC-17753>
- 19 B250 dual adapter configuration requires ESX4.0u1p5 or later
- 20 56xx processor family require Patch04 or later
- 21 55xx processor family supported, this OS version does not support the 56xx processor family
- 22 RHEL errata kernel 2.6.18-164.15.1 (or newer) required for Nehalem EX processor support on B440 M1 servers, See <http://kbase.redhat.com/faq/docs/DOC-33762>
- 23 SLES kernel 2.6.27.45-0.1.1 (or newer) required for Nehalem EX processor support on B440 M1 servers
- 24 For full memory configs see following link:
http://kb.vmware.com/selfservice/microsites/search.do?cmd=displayKC&docType=kc&externalId=1016239&sliceId=1&docTypeID=DT_KB_1_1&dialogID=94385437&stateId=0%200%2094389504
- 25 May require an Updated Driver CD available from VMware.com > downloads > VMware vSphere Hypervisor (ESXi) > Drivers & Tools > VMware ESX/ESXi 4.0 Driver CD for Cisco FCoE CNA
- 26 May require a Cisco OEM Customized Installer CD available from VMware.com > downloads > VMware vSphere Hypervisor (ESXi) > Drivers & Tools > VMware ESXi 4.1 or 4.0 Update 2 Installable Cisco Customized ISO Image
- 27 Firmware is embedded in driver
- 28 For SAN boot configurations two SLES PTFs are required:
https://you.novell.com/update/x86_64/update/SUSE-SLES/11/PTF/e9a758d22183504af2d5ab4d9a9853da/20110120/
and
https://you.novell.com/update/x86_64/update/SUSE-SLES/11/PTF/e9a758d22183504af2d5ab4d9a9853da/20110802/
- 29 All variations of OS are supported for this version, including Windows Server Core, Full and Hyper-V Standalone
- 30 To upgrade to ESXi 4.1 U1 use the VMware upgrade on a 4.1 installation
- 31 Only the RHEL compatible kernel is supported when using Oracle Linux
- 32 To upgrade to ESXi 4.0 U3 use the VMware upgrade on a 4.0 U2 installation
- 33 SAN Boot not supported
- 34 ESX NPIV Host Feature is not supported

Related Documentation

Links to the latest versions of related Cisco documentation are available in the *Cisco UCS Documentation Roadmap*, located at:

<http://www.cisco.com/go/unifiedcomputing/b-series-doc>

For information about Fibre Channel Switch and Storage Array interoperability, consult the *Cisco UCS Storage Interoperability Matrix*, located at:

<http://www.cisco.com/en/US/docs/switches/datacenter/mds9000/interoperability/matrix/Matrix8.html>

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