



## UCP Bare Metal Support Matrix Hitachi Advanced Server DS Product Line

**Note:** Configurations added since the last matrix will be shown in **red** text.

### Introduction

Use this interoperability matrix to check whether a proposed customer configuration is supported. Each page contains a set of components that together comprise an Hitachi Vantara-supported solution. This includes operating system (OS) and maintenance release, network interface cards (NIC) firmware and drivers, host bus adapter (HBA) firmware and driver, RAID/SAS Controller firmware and driver and Operating System Boot options.

#### **Note :**

If a combination does not appear on the OS support matrix, the Hitachi Vantara Sales Engineer (SE) associated with the customer or other Hitachi field service employee must submit an Aha Idea request in order to gain support for the new configuration.

Note that in some cases a component (HBA, driver, switch, switch firmware version) may no longer be supported (end of service life, EOSL) in which case the customer should choose components that are already supported from the matrix. Review the following pages for associated components.

### Legal Disclaimer

*This information is subject to change without notice. The information contained in this document is provided by Hitachi Vantara for general information purposes only and is based on information as of the date of distribution (indicated by the date above). Hitachi Vantara makes no express or implied warranties of any kind whatsoever regarding the contents of this Document or the performance of the products referred to in these documents and Hitachi Vantara expressly disclaims all warranties including, without limitation, the implied warranties of satisfactory quality, merchantability or fitness for a particular purpose, the statutory warranty against infringement, and any warranty of title. Hitachi Vantara will have no liability whatsoever for any direct loss or damage (but excluding any liability for death, personal injury or fraudulent misrepresentation) or for any indirect, special, incidental or consequential damages, including but not limited to loss of data or records, lost profits or other economic loss, arising out of or in connection with the use of this information even if such loss was foreseeable or Hitachi Vantara had been advised of the possibility of such loss.*

## Table of Contents

<b>Compatibility Matrices</b>	<b>Page</b>
<a href="#">Table Of Contents</a>	2
<a href="#">DS120 - Microsoft Windows Server</a>	3
<a href="#">DS220 - Microsoft Windows Server</a>	4
<a href="#">DS225 - Microsoft Windows Server</a>	5
<a href="#">DS240 - Microsoft Windows Server</a>	6
<a href="#">DS120 - VMware ESXi</a>	7
<a href="#">DS220 - VMware ESXi</a>	8
<a href="#">DS225 - VMware ESXi</a>	9
<a href="#">DS240 - VMware ESXi</a>	10
<a href="#">DS120 - Red Hat Enterprise Linux</a>	11
<a href="#">DS220 - Red Hat Enterprise Linux</a>	12
<a href="#">DS225 - Red Hat Enterprise Linux</a>	13
<a href="#">DS240 - Red Hat Enterprise Linux</a>	14
<a href="#">DS220 - SUSE Linux Enterprise Server</a>	15
<a href="#">DS220 - Oracle Linux</a>	16

Components	Windows Server	Windows Server
	2016	2019
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake
BIOS	<a href="#">3B16.H01</a>	<a href="#">3B14.H01</a>
BMC	<a href="#">4.65.06</a>	<a href="#">4.62.06</a>
CPLD	Rev10 / Rev11	Rev10 / Rev11

IO Options	Hitachi Vantara Part Number	Firmware / Driver	2016	2019
<b>Network Cards (Options)</b>				
Intel X527-DA4, 10GbE quad-port, OCP Mezz (Note 1)	1HY9ZZZ096P.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel X527-DA2, 10GbE dual-port, OCP Mezz (Note 1)	1HY9ZZZ096M.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel X557-T4, 10GBase-T quad-port, OCP Mezz (Note 2)	1HY9ZZZ096N.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware	<a href="#">7.30</a>	<a href="#">6.80</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40ea68.sys 1.10.128.0</a>
Intel X710-DA4, 10 GbE quad-port, PCIe (Note 3)	1HY1ZZZ000K.P	Firmware	<a href="#">7.30</a>	<a href="#">7.30</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40ea68.sys 1.12.171.0</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz	1HYQZZZ067S.P	Firmware	<a href="#">14.26.1040</a>	<a href="#">14.23.1020</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2, PCIe	1HYQZZZ012Q.P	Firmware	<a href="#">14.26.1040</a>	<a href="#">14.26.1040</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16	1HYQZZZ0120.P	Firmware	<a href="#">16.26.1040</a>	<a href="#">16.26.1040</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
<b>HBA Controller</b>				
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware	<a href="#">12.6.240.22</a>	<a href="#">12.0.193.13</a>
		Driver	<a href="#">elxfc 12.6.165.0</a>	<a href="#">elxstor 11.4.225.8009</a>
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware	<a href="#">12.6.240.22</a>	<a href="#">12.0.193.13</a>
		Driver	<a href="#">elxfc 12.6.165.0</a>	<a href="#">elxstor 11.4.225.8009</a>
<b>RAID Controller</b>				
Broadcom SAS3516 2GB RAID Mezzanine	1HY9ZZZ090X.P	Firmware	<a href="#">5.040.00-1123</a>	<a href="#">5.040.00-1123</a>
		Driver	<a href="#">megasas35i.sys 7.702.12.0</a>	<a href="#">megasas35i.sys 7.705.8.0</a>
<b>SAS Controller</b>				
QS-3216 Mezz Card	1HY9ZZZ0910.P	Firmware	<a href="#">1A22 (16.00.09.00)</a>	<a href="#">1A14(15.00.00.00.00)</a>
		Driver	<a href="#">megasas35i.sys 2.51.18.0</a>	<a href="#">megasas35i.sys 7.705.8.0</a>

<b>Boot Options &amp; VSP Interoperability</b>		
SATADOM Boot	Supported	Supported
Local Disk Boot	Supported	Supported
PXE Boot	Supported	Supported
VSP SAN Boot	Supported	Supported
VSP Direct Attach Boot	Supported	Supported
VSP Interoperability	<a href="#">Hitachi Vantara Interop Matrices</a>	<a href="#">Hitachi Vantara Interop Matrices</a>

Footnotes for:

[DS120 Interoperability Matrix](#)

Note 1: Listed : "Intel(R) Ethernet Connection X722 for 10GbE SFP+"

Note 2: Listed : "Intel(R) Ethernet Connection X722 for 10GBASE-T"

Note 3: Intel X710-DA4, 10 GbE quad-port, PCIe card has been tested with only BIOS/BMC version 316.H01/4.65.06

Components	Windows Server	Windows Server
	2016	2019
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake
BIOS	<a href="#">3B16.H01</a>	<a href="#">3B14.H01</a>
BMC	<a href="#">4.65.06</a>	<a href="#">4.62.06</a>
CPLD	Rev10 / Rev11	Rev10 / Rev11

IO Options	Hitachi Vantara Part Number	Firmware / Driver	2016	2019
<b>Network Cards (Options)</b>				
Intel X527-DA4, 10GbE quad-port, OCP Mezz (Note 1)	1HY9ZZZ096P.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel X527-DA2, 10GbE dual-port, OCP Mezz (Note 1)	1HY9ZZZ096M.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel X557-T4, 10GBase-T quad-port, OCP Mezz (Note 2)	1HY9ZZZ096N.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware	<a href="#">7.30</a>	<a href="#">6.80</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40ea68.sys 1.10.128.0</a>
Intel X710-DA4, 10 GbE quad-port, PCIe (Note 3)	1HY1ZZZ000K.P	Firmware	<a href="#">7.30</a>	<a href="#">7.30</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40ea68.sys 1.12.171.0</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz	1HYQZZZ067S.P	Firmware	<a href="#">14.26.1040</a>	<a href="#">14.23.1020</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2, PCIe	1HYQZZZ012Q.P	Firmware	<a href="#">14.26.1040</a>	<a href="#">14.26.1040</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16	1HYQZZZ0120.P	Firmware	<a href="#">16.26.1040</a>	<a href="#">16.26.1040</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
<b>HBA Controller</b>				
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware	<a href="#">12.6.240.22</a>	<a href="#">12.0.193.13</a>
		Driver	<a href="#">elxfc 12.6.165.0</a>	<a href="#">elxstor 11.4.225.8009</a>
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware	<a href="#">12.6.240.22</a>	<a href="#">12.0.193.13</a>
		Driver	<a href="#">elxfc 12.6.165.0</a>	<a href="#">elxstor 11.4.225.8009</a>
<b>RAID Controller</b>				
Broadcom SAS3516 2GB RAID Mezzanine	1HY9ZZZ090X.P	Firmware	<a href="#">5.040.00-1123</a>	<a href="#">5.040.00-1123</a>
		Driver	<a href="#">megasas35i.sys 7.702.12.0</a>	<a href="#">megasas35i.sys 7.705.8.0</a>
<b>SAS Controller</b>				
QS-3216 Mezz Card	1HY9ZZZ0910.P	Firmware	<a href="#">1A22 (16.00.09.00)</a>	<a href="#">1A14(15.00.00.00.00)</a>
		Driver	<a href="#">megasas35i.sys 2.51.18.0</a>	<a href="#">megasas35i.sys 7.705.8.0</a>

Boot Options & VSP Interoperability		
SATADOM Boot	Supported	Supported
Local Disk Boot	Supported	Supported
PXE Boot	Supported	Supported
VSP SAN Boot	Supported	Supported
VSP Direct Attach Boot	Supported	Supported
VSP Interoperability	<a href="#">Hitachi Vantara Interop Matrices</a>	<a href="#">Hitachi Vantara Interop Matrices</a>

Footnotes for:

[DS220 Interoperability Matrix](#)

Note 1: Listed : "Intel(R) Ethernet Connection X722 for 10GbE SFP+"

Note 2: Listed : "Intel(R) Ethernet Connection X722 for 10GBASE-T"

Note 3: Intel X710-DA4, 10 GbE quad-port, PCIe card has been tested with only BIOS/BMC version 316.H01/4.65.06

Components	Windows Server	Windows Server
	2016	2019
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake
BIOS	<a href="#">3B16.H01</a>	<a href="#">3B14.H01</a>
BMC	<a href="#">4.65.06</a>	<a href="#">4.62.06</a>
CPLD	Rev10 / Rev11	Rev10 / Rev11

IO Options	Hitachi Vantara Part Number	Firmware / Driver	2016	2019
<b>Network Cards (Options)</b>				
Intel X527-DA4, 10GbE quad-port, OCP Mezz (Note 1)	1HY9ZZZ096P.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel X527-DA2, 10GbE dual-port, OCP Mezz (Note 1)	1HY9ZZZ096M.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel X557-T4, 10GBase-T quad-port, OCP Mezz (Note 2)	1HY9ZZZ096N.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware	<a href="#">7.30</a>	<a href="#">6.80</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40ea68.sys 1.10.128.0</a>
Intel X710-DA4, 10 GbE quad-port, PCIe (Note 3)	1HY1ZZZ000K.P	Firmware	<a href="#">7.30</a>	<a href="#">7.30</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40ea68.sys 1.12.171.0</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz	1HYQZZZ067S.P	Firmware	<a href="#">14.26.1040</a>	<a href="#">14.23.1020</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2, PCIe	1HYQZZZ012Q.P	Firmware	<a href="#">14.26.1040</a>	<a href="#">14.26.1040</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16	1HYQZZZ0120.P	Firmware	<a href="#">16.26.1040</a>	<a href="#">16.26.1040</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
<b>HBA Controller</b>				
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware	<a href="#">12.6.240.22</a>	<a href="#">12.0.193.13</a>
		Driver	<a href="#">elxfc 12.6.165.0</a>	<a href="#">elxstor 11.4.225.8009</a>
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware	<a href="#">12.6.240.22</a>	<a href="#">12.0.193.13</a>
		Driver	<a href="#">elxfc 12.6.165.0</a>	<a href="#">elxstor 11.4.225.8009</a>
<b>SAS Controller</b>				
Broadcom SAS9460-16i PCIe	1HYQZZZ026R.P	Firmware	N/A	<a href="#">5.040.00-1123</a>
		Driver	N/A	<a href="#">megasas35i.sys 7.705.8.0</a>

Boot Options & VSP Interoperability	
SATADOM Boot	Supported
Local Disk Boot	N/A
PXE Boot	Supported
VSP SAN Boot	Supported
VSP Direct Attach Boot	Supported
VSP Interoperability	<a href="#">Hitachi Vantara Interop Matrices</a>

Footnotes for:

[DS225 Interoperability Matrix](#)

Note 1: Listed : "Intel(R) Ethernet Connection X722 for 10GbE SFP+"

Note 2: Listed : "Intel(R) Ethernet Connection X722 for 10GBASE-T"

Note 3: Intel X710-DA4, 10 GbE quad-port, PCIe card has been tested with only BIOS/BMC version 316.H01/4.65.06

Components	Windows Server	Windows Server
	2016	2019
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake
BIOS	<a href="#">3B16.H01</a>	<a href="#">S7DH3B13.H01</a>
BMC	<a href="#">4.65.06</a>	<a href="#">4.60.06</a>
CPLD	Rev10 / Rev11	Rev10 / Rev11

IO Options	Hitachi Vantara Part Number	Firmware / Driver	2016	2019
<b>Network Cards (Options)</b>				
Intel X527-DA4, 10GbE quad-port, OCP Mezz (Note 1)	1HY9ZZZ096P.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel X527-DA2, 10GbE dual-port, OCP Mezz (Note 1)	1HY9ZZZ096M.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel X557-T4, 10GBase-T quad-port, OCP Mezz (Note 2)	1HY9ZZZ096N.P	Firmware	<a href="#">4.00</a>	<a href="#">4.00</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40eb68.sys 1.10.130.0</a>
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware	<a href="#">7.30</a>	<a href="#">6.80</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40ea68.sys 1.10.128.0</a>
Intel X710-DA4, 10 GbE quad-port, PCIe (Note 3)	1HY1ZZZ000K.P	Firmware	<a href="#">7.30</a>	<a href="#">7.30</a>
		Driver	<a href="#">i40ea65.sys 1.12.171.0</a>	<a href="#">i40ea68.sys 1.12.171.0</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (except DS240)	1HYQZZZ067S.P	Firmware	<a href="#">14.26.1040</a>	<a href="#">14.23.1020</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2, PCIe	1HYQZZZ012Q.P	Firmware	<a href="#">14.26.1040</a>	<a href="#">14.26.1040</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16	1HYQZZZ0120.P	Firmware	<a href="#">16.26.1040</a>	<a href="#">16.26.1040</a>
		Driver	<a href="#">mlx5.sys 2.30.21713.0</a>	<a href="#">mlx5.sys 2.30.21713.0</a>
<b>HBA Controller</b>				
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware	<a href="#">12.6.240.22</a>	<a href="#">12.0.193.13</a>
		Driver	<a href="#">elxfc 12.6.165.0</a>	<a href="#">elxstor 11.4.225.8009</a>
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware	<a href="#">12.6.240.22</a>	<a href="#">12.0.193.13</a>
		Driver	<a href="#">elxfc 12.6.165.0</a>	<a href="#">elxstor 11.4.225.8009</a>
<b>RAID Controller</b>				
Broadcom SAS3516 2GB RAID Mezzanine	1HY9ZZZ090X.P	Firmware	<a href="#">5.040.00-1123</a>	<a href="#">5.040.00-1123</a>
		Driver	<a href="#">megasas35i.sys 7.702.12.0</a>	<a href="#">megasas35i.sys 7.705.8.0</a>
<b>SAS Controller</b>				
QS-3216 Mezz Card	1HY9ZZZ0910.P	Firmware	<a href="#">1A22 (16.00.09.00)</a>	<a href="#">1A14(15.00.00.00.00)</a>
		Driver	<a href="#">megasas35i.sys 2.51.18.0</a>	<a href="#">megasas35i.sys 7.705.8.0</a>

Boot Options & VSP Interoperability		
Local Disk Boot	Supported	Supported
PXE Boot	Supported	Supported
VSP SAN Boot	Supported	Supported
VSP Direct Attach Boot	Supported	Supported
VSP Interoperability	<a href="#">Hitachi Vantara Interop Matrices</a>	<a href="#">Hitachi Vantara Interop Matrices</a>

Footnotes for:

[DS240 Interoperability Matrix](#)

Note 1: Listed : "Intel(R) Ethernet Connection X722 for 10GbE SFP+"

Note 2: Listed : "Intel(R) Ethernet Connection X722 for 10GBASE-T"

Note 3: Intel X710-DA4, 10 GbE quad-port, PCIe card has been tested with only BIOS/BMC version 316.H01/4.65.06

Components	VMware ESXi	
	6.7 U3	7.0
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake
BIOS	<a href="#">3B14.H01</a>	<a href="#">3B16.H01</a>
BMC	<a href="#">4.62.06</a>	<a href="#">4.65.06</a>
CPLD	Rev10 / Rev11	Rev10 / Rev11

IO Options	Hitachi Vantara Part Number	Firmware / Driver	6.7 U3	7.0
<b>Network Cards (Options)</b>				
Intel X527-DA4, 10GbE quad-port, OCP Mezz (Note 1)	1HY9ZZZ096P.P	Firmware i40en Driver (ESXi)	<a href="#">4.00</a> <a href="#">1.7.17</a>	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X527-DA2, 10GbE dual-port, OCP Mezz (Note 1)	1HY9ZZZ096M.P	Firmware i40en Driver (ESXi)	N/A N/A	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X557-T4, 10GBase-T quad-port, OCP Mezz (Note 2)	1HY9ZZZ096N.P	Firmware i40en Driver (ESXi)	<a href="#">4.00</a> <a href="#">1.7.17</a>	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware i40en Driver (ESXi)	<a href="#">6.80</a> <a href="#">1.7.17</a>	<a href="#">7.30</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X710-DA4, 10 GbE quad-port, PCIe	1HY1ZZZ000K.P	Firmware i40en Driver (ESXi)	N/A N/A	<a href="#">7.30</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (Note 3)	1HYQZZZ067S.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">14.27.1016</a> <a href="#">VMWare Inbox 4.19.16.7</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2, PCIe (Note 4)	1HYQZZZ012Q.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">14.26.1040</a> <a href="#">VMWare Inbox 4.19.16.7</a>
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16 (Note 5)	1HYQZZZ0120.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">14.26.1040</a> <a href="#">VMWare Inbox 4.19.16.7</a>
<b>HBA Controller</b>				
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware lpfc Driver (ESXi)	<a href="#">12.0.193.13</a> <a href="#">12.0.193.14</a>	<a href="#">12.6.240.22</a> <a href="#">VMWare Inbox 12.4.293.3</a>
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware lpfc Driver (ESXi)	<a href="#">12.0.193.13</a> <a href="#">12.0.193.14</a>	<a href="#">12.6.240.22</a> <a href="#">VMWare Inbox 12.4.293.3</a>
<b>RAID Controller</b>				
Broadcom SAS3516 2GB RAID Mezzanine	1HY9ZZZ090X.P	Firmware lsi_mr3 Driver	N/A N/A	<a href="#">5.040.00-1123</a> <a href="#">7.712.50.00</a>
<b>SAS Controller</b>				
QS-3216 Mezz Card	1HY9ZZZ0910.P	Firmware lsi_msgpt3 Driver (ESXi)	<a href="#">1A14 (15.00.00.00) (20190530)</a> <a href="#">16.00.00.00-10EM</a>	<a href="#">1A22 (16.00.09.00)</a> <a href="#">VMWare Inbox - 17.00.10.00</a>

Boot Options & VSP Interoperability		
SATADOM Boot		Supported
Local Disk Boot		N/A
PXE Boot		Supported
VSP SAN Boot		N/A
VSP Direct Attach Boot		N/A
VSP Interoperability	<a href="#">Hitachi Vantara Interop Matrices</a>	<a href="#">Hitachi Vantara Interop Matrices</a>

Footnotes for:

DS120 Interoperability Matrix

Note 1: Listed : "Intel(R) Ethernet Connection X722 for 10GbE SFP+"

Note 2: Listed : "Intel(R) Ethernet Connection X722 for 10GBASE-T"

Note 3: "ON 25GbE ConnectX-4 LX EN Dual port" Fw 14.21.1000 supported with driver 4.16.12.12 Async driver

Note 4: Listed on VMware HCL as: "ConnectX-4 Lx EN NIC; 25GbE; dual-port SFP28; (MCX4121A- ACA)"

Note 5: Listed on VMware HCL as: "ConnectX®-5 Ex EN network interface card, 100GbE dual-port QSFP28 (MCX516A-CCAT)"

Components	VMware ESXi	VMware ESXi
	6.7 U3	7.0
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake
BIOS	<a href="#">3B14.H01</a>	<a href="#">3B16.H01</a>
BMC	<a href="#">4.62.06</a>	<a href="#">4.65.06</a>
CPLD	Rev10 / Rev11	Rev10 / Rev11

IO Options	Hitachi Vantara Part Number	Firmware / Driver	6.7 U3	7.0
<b>Network Cards (Options)</b>				
Intel X527-DA4, 10GbE quad-port, OCP Mezz (Note 1)	1HY9ZZZ096P.P	Firmware i40en Driver (ESXi)	<a href="#">4.00</a> <a href="#">1.7.17</a>	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X527-DA2, 10GbE dual-port, OCP Mezz (Note 1)	1HY9ZZZ096M.P	Firmware i40en Driver (ESXi)	N/A N/A	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X557-T4, 10GBase-T quad-port, OCP Mezz (Note 2)	1HY9ZZZ096N.P	Firmware i40en Driver (ESXi)	<a href="#">4.00</a> <a href="#">1.7.17</a>	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware i40en Driver (ESXi)	<a href="#">6.80</a> <a href="#">1.7.17</a>	<a href="#">7.30</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X710-DA4, 10 GbE quad-port, PCIe	1HY1ZZZ000K.P	Firmware i40en Driver (ESXi)	N/A N/A	<a href="#">7.30</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (Note 3)	1HYQZZZ067S.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">14.27.1016</a> <a href="#">VMWare Inbox 4.19.16.7</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2, PCIe (Note 4)	1HYQZZZ012Q.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">14.26.1040</a> <a href="#">VMWare Inbox 4.19.16.7</a>
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16 (Note 5)	1HYQZZZ0120.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">14.26.1040</a> <a href="#">VMWare Inbox 4.19.16.7</a>
<b>HBA Controller</b>				
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware lpfc Driver (ESXi)	<a href="#">12.0.193.13</a> <a href="#">12.0.193.14</a>	<a href="#">12.6.240.22</a> <a href="#">VMWare Inbox 12.4.293.3</a>
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware lpfc Driver (ESXi)	<a href="#">12.0.193.13</a> <a href="#">12.0.193.14</a>	<a href="#">12.6.240.22</a> <a href="#">VMWare Inbox 12.4.293.3</a>
<b>RAID Controller</b>				
Broadcom SAS3516 2GB RAID Mezzanine	1HY9ZZZ090X.P	Firmware Driver	N/A N/A	<a href="#">5.040.00-1123</a> <a href="#">7.712.50.00</a>
<b>SAS Controller</b>				
QS-3216 Mezz Card	1HY9ZZZ0910.P	Firmware isi_msgpt3 Driver (ESXi)	<a href="#">1A14 (15.00.00.00) (20190530)</a> <a href="#">16.00.00.00-10EM</a>	<a href="#">1A22 (16.00.09.00)</a> <a href="#">VMWare Inbox - 17.00.10.00</a>

Boot Options & VSP Interoperability		
SATADOM Boot		Supported
Local Disk Boot		N/A
PXE Boot		Supported
VSP SAN Boot		N/A
VSP Direct Attach Boot		N/A
VSP Interoperability	<a href="#">Hitachi Vantara Interop Matrices</a>	<a href="#">Hitachi Vantara Interop Matrices</a>

Footnotes for:

[DS220 Interoperability Matrix](#)

Note 1: Listed : "Intel(R) Ethernet Connection X722 for 10GbE SFP+"

Note 2: Listed : "Intel(R) Ethernet Connection X722 for 10GBASE-T"

Note 3: "ON 25GbE ConnectX-4 LX EN Dual port" Fw 14.21.1000 supported with driver 4.16.12.12 Async driver

Note 4: Listed on VMware HCL as: "ConnectX-4 Lx EN NIC; 25GbE; dual-port SFP28; (MCX4121A- ACA)"

Note 5: Listed on VMware HCL as: "ConnectX®-5 Ex EN network interface card, 100GbE dual-port QSFP28 (MCX516A-CCAT)"



	<a href="#">VMware ESXi</a>	<a href="#">VMware ESXi</a>
Components	6.7 U3	7.0
	Versions	Versions
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake
BIOS	<a href="#">3B14.H01</a>	<a href="#">3B16.H01</a>
BMC	<a href="#">4.62.06</a>	<a href="#">4.65.06</a>
CPLD	Rev10 / Rev11	Rev10 / Rev11

IO Options	Hitachi Vantara Part Number	Firmware / Driver	6.7 U3	7.0
<b>Network Cards (Options)</b>				
Intel X527-DA4, 10GbE quad-port, OCP Mezz (Note 1)	1HY9ZZZ096P.P	Firmware i40en Driver (ESXi)	<a href="#">4.00</a> <a href="#">1.7.17</a>	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X527-DA2, 10GbE dual-port, OCP Mezz (Note 1)	1HY9ZZZ096M.P	Firmware i40en Driver (ESXi)	N/A N/A	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X557-T4, 10GBase-T quad-port, OCP Mezz (Note 2)	1HY9ZZZ096N.P	Firmware i40en Driver (ESXi)	<a href="#">4.00</a> <a href="#">1.7.17</a>	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware i40en Driver (ESXi)	<a href="#">6.80</a> <a href="#">1.7.17</a>	<a href="#">7.30</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X710-DA4, 10 GbE quad-port, PCIe	1HY1ZZZ000K.P	Firmware i40en Driver (ESXi)	N/A N/A	<a href="#">7.30</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (Note 3)	1HYQZZZ067S.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">14.27.1016</a> <a href="#">VMWare Inbox 4.19.16.7</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2, PCIe (Note 4)	1HYQZZZ012Q.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">14.26.1040</a> <a href="#">VMWare Inbox 4.19.16.7</a>
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16 (Note 5)	1HYQZZZ0120.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">14.26.1040</a> <a href="#">VMWare Inbox 4.19.16.7</a>
<b>HBA Controller</b>				
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware lpfc Driver (ESXi)	<a href="#">12.0.193.13</a> <a href="#">12.0.193.14</a>	<a href="#">12.6.240.22</a> <a href="#">VMWare Inbox 12.4.293.3</a>
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware lpfc Driver (ESXi)	<a href="#">12.0.193.13</a> <a href="#">12.0.193.14</a>	<a href="#">12.6.240.22</a> <a href="#">VMWare Inbox 12.4.293.3</a>
<b>SAS Controller</b>				
Broadcom SAS9460-16i PCIe	1HYQZZZ026R.P	Firmware lsi_msgpt3 Driver (ESXi)	<a href="#">15.00.00.00</a> <a href="#">16.00.00.00-10EM</a>	N/A N/A

<b>Boot Options &amp; VSP Interoperability</b>	
SATADOM Boot	Supported
Local Disk Boot	N/A
PXE Boot	Supported
VSP SAN Boot	N/A
VSP Direct Attach Boot	N/A
VSP Interoperability	<a href="#">Hitachi Vantara Interop Matrices</a>

Footnotes for:

[DS225 Interoperability Matrix](#)

Note 1: Listed : "Intel(R) Ethernet Connection X722 for 10GbE SFP+"

Note 2: Listed : "Intel(R) Ethernet Connection X722 for 10GBASE-T"

Note 3: "ON 25GbE ConnectX-4 LX EN Dual port" Fw 14.21.1000 supported with driver 4.16.12.12 Async driver

Note 4: Listed on VMware HCL as: "ConnectX-4 Lx EN NIC; 25GbE; dual-port SFP28; (MCX4121A- ACA)"

Note 5: Listed on VMware HCL as: "ConnectX®-5 Ex EN network interface card, 100GbE dual-port QSFP28 (MCX516A-CCAT)"

Components	VMware ESXi	
	6.7 U3	7.0
CPU Family	Skylake / Cascade Lake	
BIOS	<a href="#">3B14.H01</a>	<a href="#">3B16.H01</a>
BMC	<a href="#">4.62.06</a>	<a href="#">4.65.06</a>
CPLD	N/A	N/A

IO Options	Hitachi Vantara Part Number	Firmware / Driver	6.7 U3	7.0
<b>Network Cards (Options)</b>				
Intel X527-DA4, 10GbE quad-port, OCP Mezz (Note 1)	1HY9ZZZ096P.P	Firmware i40en Driver (ESXi)	<a href="#">4.00</a> <a href="#">1.7.17</a>	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X527-DA2, 10GbE dual-port, OCP Mezz (Note 1)	1HY9ZZZ096M.P	Firmware i40en Driver (ESXi)	N/A N/A	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X557-T4, 10GBase-T quad-port, OCP Mezz (Note 2)	1HY9ZZZ096N.P	Firmware i40en Driver (ESXi)	<a href="#">4.00</a> <a href="#">1.7.17</a>	<a href="#">4.00</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware i40en Driver (ESXi)	<a href="#">6.80</a> <a href="#">1.7.17</a>	<a href="#">7.30</a> <a href="#">VMWare Inbox 1.8.1.16</a>
Intel X710-DA4, 10 GbE quad-port, PCIe	1HY1ZZZ000K.P	Firmware i40en Driver (ESXi)	N/A N/A	<a href="#">7.30</a> <a href="#">VMWare inbox 1.8.1.16</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (except DS240) (Note 3)	1HYQZZZ067S.P	Firmware Firmware	N/A N/A	<a href="#">14.26.1040</a> <a href="#">VMWare Inbox 4.19.16.7</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2, PCIe (Note 4)	1HYQZZZ012Q.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">14.26.1040</a> <a href="#">VMWare Inbox 4.19.16.7</a>
Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16 (Note 5)	1HYQZZZ0120.P	Firmware nmlx5_core Driver (ESXi)	<a href="#">14.23.1020</a> <a href="#">4.17.14.2</a>	<a href="#">16.26.1040</a> <a href="#">VMWare Inbox 4.19.16.7</a>
<b>HBA Controller</b>				
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware lpfc Driver (ESXi)	<a href="#">12.0.193.13</a> <a href="#">12.0.193.14</a>	<a href="#">12.6.240.22</a> <a href="#">VMWare Inbox 12.4.293.3</a>
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware lpfc Driver (ESXi)	<a href="#">12.0.193.13</a> <a href="#">12.0.193.14</a>	<a href="#">12.6.240.22</a> <a href="#">VMWare inbox 12.4.293.3</a>
<b>RAID Controller</b>				
Broadcom SAS3516 2GB RAID Mezzanine	1HY9ZZZ090X.P	Firmware lsi-mr3 Driver (ESXi)	<a href="#">5.040.00-1123</a> <a href="#">7.704.7.0</a>	<a href="#">5.040.00-1123</a> <a href="#">7.712.50.00</a>
<b>SAS Controller</b>				
QS-3216 Mezz Card	1HY9ZZZ0910.P	Firmware Driver	N/A N/A	<a href="#">1A22 (16.00.09.00)</a> <a href="#">VMWare Inbox - 17.00.10.00</a>

Boot Options & VSP Interoperability		
SATADOM Boot		N/A
Local Disk Boot		Supported RAID1
PXE Boot		Supported
VSP SAN Boot		N/A
VSP Direct Attach Boot		N/A
VSP Interoperability		<a href="#">Hitachi Vantara Interop Matrices</a>

Footnotes for:

DS240 Interoperability Matrix

Note 1: Listed : "Intel(R) Ethernet Connection X722 for 10GbE SFP+"

Note 2: Listed : "Intel(R) Ethernet Connection X722 for 10GBASE-T"

Note 3: "ON 25GbE ConnectX-4 LX EN Dual port" Fw 14.21.1000 supported with driver 4.16.12.12 Async driver

Note 4: Listed on VMware HCL as: "ConnectX-4 Lx EN NIC; 25GbE; dual-port SFP28; (MCX4121A- ACA)"

Note 5: Listed on VMware HCL as: "ConnectX®-5 Ex EN network interface card, 100GbE dual-port QSFP28 (MCX516A-CCAT)"

			<a href="#">Red Hat Enterprise Linux 7.6</a>	<a href="#">Red Hat Enterprise Linux 8.1</a>
<b>Components</b>			<b>Versions</b>	<b>Versions</b>
CPU Family			Skylake	Skylake
BIOS			<a href="#">3B14.H01</a>	<a href="#">3B16.H01</a>
BMC			<a href="#">4.62.06</a>	<a href="#">4.65.06</a>
CPLD			Rev10 / Rev11	Rev10 / Rev11
<b>IO Options</b>				
	<b>Hitachi Vantara Part Number</b>	<b>Firmware / Driver</b>	<b>7.6</b>	<b>8.1</b>
<b>Network Cards (Options)</b>				
Intel X710-DA4, 10 GbE quad-port, PCIe	1HY1ZZZ000K.P	Firmware	N/A	<a href="#">7.30</a>
		i40en Driver	N/A	<a href="#">2.11.29</a>
Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz	1HYQZZZ067S.P	Firmware	<a href="#">14.23.1020</a>	N/A
		Driver	Inbox	N/A
<b>HBA Controller</b>				
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware	<a href="#">12.0.193.13</a>	N/A
		Driver	Inbox	N/A
<b>RAID Controller</b>				
Broadcom SAS3516 2GB RAID Mezzanine	1HY9ZZZ090X.P	Firmware	<a href="#">5.040.00-1123</a>	N/A
		Driver	<a href="#">07.705.02.00-rh1</a>	N/A
<b>Boot Options &amp; VSP Interoperability</b>				
SATADOM Boot			Supported	Supported
Local Disk Boot			Supported	N/A
PXE Boot			Supported	N/A
VSP Interoperability			<a href="#">Hitachi Vantara Interop Matrices</a>	<a href="#">Hitachi Vantara Interop Matrices</a>

Components	<a href="#">Red Hat Enterprise Linux 7.6</a>	<a href="#">Red Hat Enterprise Linux 8.1</a>
	Versions	Versions
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake
BIOS	<a href="#">3B14.H01</a>	<a href="#">3B16.H01</a>
BMC	<a href="#">4.62.06</a>	<a href="#">4.65.06</a>
CPLD	Rev11	Rev11

IO Options	Hitachi Vantara Part Number	Firmware / Driver	7.6	8.1
<b>Network Cards (Options)</b>				
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware	<a href="#">6.0.2</a>	N/A
		Driver	<a href="#">2.3.2-k</a>	N/A
Intel X710-DA4, 10 GbE quad-port, PCIe	1HY1ZZZ000K.P	Firmware	N/A	<a href="#">7.30</a>
		i40en Driver	N/A	<a href="#">2.11.29</a>
<b>HBA Controller</b>				
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware	<a href="#">12.2.299.23</a>	N/A
		Driver	<a href="#">12.0.0.10</a>	N/A
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware	<a href="#">12.2.299.23</a>	N/A
		Driver	<a href="#">12.0.0.10</a>	N/A
<b>RAID Controller</b>				
Broadcom SAS3516 2GB RAID Mezzanine	1HY9ZZZ090X.P	Firmware	<a href="#">5.060.00-1455</a>	N/A
		Driver	<a href="#">07.705.02.00-rh1</a>	N/A

Boot Options & VSP Interoperability		
SATADOM Boot	Supported	Supported
Local Disk Boot	Supported	N/A
PXE Boot	Supported	N/A
VSP SAN Boot	Supported	N/A
VSP Interoperability	<a href="#">Hitachi Vantara Interop Matrices</a>	<a href="#">Hitachi Vantara Interop Matrices</a>

Draft

[Red Hat Enterprise Linux](#) [Red Hat Enterprise Linux](#)

	7.6	8.1
Components	Versions	Versions
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake
BIOS	<a href="#">3B14.H01</a>	<a href="#">3B16.H01</a>
BMC	<a href="#">4.62.06</a>	<a href="#">4.65.06</a>
CPLD	Rev11	Rev11

IO Options	Hitach Vantara Part Number	Firmware / Driver	7.6	8.1
<b>Network Cards (Options)</b>				
Intel X710-DA4, 10 GbE quad-port, PCIe	1HY1ZZZ000K.P	Firmware	N/A	<a href="#">7.30</a>
		i40en Driver	N/A	<a href="#">2.11.29</a>
<b>Boot Options &amp; VSP Interoperability</b>				
SATADOM Boot			N/A	Supported
VSP Interoperability			<a href="#">Hitachi Vantara Interop Matrices</a>	<a href="#">Hitachi Vantara Interop Matrices</a>

Foot Notes for: [DS225 Interoperability Matrix](#)

Note 1: Listed : "Intel(R) Ethernet Connection X722 for 10GbE SFP+"

Note 2: Listed : "Intel(R) Ethernet Connection X722 for 10GBASE-T"



[Red Hat Enterprise Linux](#)

[Red Hat Enterprise Linux](#)

	7.6	8.1
<b>Components</b>	<b>Versions</b>	<b>Versions</b>
CPU Family	Skylake / Cascade Lake	Skylake / Cascade Lake
BIOS	<a href="#">S7DH3B13.H01</a>	<a href="#">3B16.H01</a>
BMC	<a href="#">4.60.06</a>	<a href="#">4.65.06</a>
CPLD	Rev11	Rev11

IO Options	Hitach Vantara Part Number	Firmware / Driver	7.6	8.1
<b>Network Cards (Options)</b>				
Intel X710-DA4, 10 GbE quad-port, PCIe	1HY1ZZZ000K.P	Firmware	N/A	<a href="#">7.30</a>
		i40en Driver	N/A	<a href="#">2.11.29</a>
<b>RAID Controller</b>				
Broadcom SAS3516 2GB RAID Mezzanine	1HY9ZZZ090X.P	Firmware	N/A	<a href="#">5.040.00-1123</a>
		Driver	N/A	Inbox
<b>Boot Options</b>				
Local Disk Boot			N/A	Supported
VSP Interoperability			<a href="#">Hitachi Vantara Interop Matrices</a>	<a href="#">Hitachi Vantara Interop Matrices</a>

Foot Notes for:

[DS240 Interoperability Matrix](#)

Note 1: Listed : "Intel(R) Ethernet Connection X722 for 10GbE SFP+"

Note 2: Listed : "Intel(R) Ethernet Connection X722 for 10GBASE-T"

[SUSE](#)

SLES 12 SP4	
Components	Versions
CPU Family	Skylake / Cascade Lake
BIOS	<a href="#">3B14.H01</a>
BMC	<a href="#">4.62.06</a>
CPLD	Rev10 / Rev11

IO Options	Hitachi Vantara Part Number	Firmware / Driver	SLES 12 SP4
<b>Network Cards (Options)</b>			
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware	<a href="#">5.51</a>
		Driver	<a href="#">i40e 2.3.2-k</a>
<b>HBA Controller</b>			
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware	<a href="#">12.0.261.15</a>
		Driver	<a href="#">lpfc 12.0.0.10</a>
<b>RAID Controller</b>			
Broadcom SAS3516 2GB RAID Mezzanine	1HY9ZZZ090X.P	Firmware	<a href="#">5.060.00-1455</a>
		Driver	<a href="#">07.704.04.00-rc1</a>

Boot Options & VSP Interoperability	
Local Disk Boot	Supported
VSP SAN Boot	Supported
VSP Interoperability	<a href="#">Hitachi Vantara Interop Matrices</a>

[Oracle Linux](#)

<b>Components</b>		<b>Oracle Linux 7.6</b>
		<b>Versions</b>
CPU Family		Skylake / Cascade Lake
BIOS		<a href="#">3B14.H01</a>
BMC		<a href="#">4.62.06</a>
CPLD		Rev11

<b>IO Options</b>	<b>Hitachi Vantara Part Number</b>	<b>Firmware / Driver</b>	<b>Oracle Linux 7.6</b>
<b>Network Cards (Options)</b>			
Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe	ADPC0710009.P	Firmware	<a href="#">6.0.2</a>
		Driver	<a href="#">i40e Driver 2.7.6-k</a>
<b>HBA Controller</b>			
Emulex LPe31002 FC HBA	LPE31002-M6.P	Firmware	<a href="#">12.2.299.23</a>
		Driver	<a href="#">lpfc Driver 12.0.0.10 (inbox drive)</a>
Emulex LPe32002 FC HBA	LPE32002-M2.P	Firmware	<a href="#">12.2.299.23</a>
		Driver	<a href="#">lpfc Driver 12.0.0.10 (inbox drive)</a>

<b>Boot Options &amp; VSP Interoperability</b>	
Local Disk Boot	Supported
VSP SAN Boot	Supported with latest kernel 4.14.35-1902.10.8.el7uek.x86_64
VSP Interoperability	<a href="#">Hitachi Vantara Interop Matrices</a>