

UCP HC Interoperability Matrix

UCP HC

Hardware

| UCP HC (Release Version) | | v3.6.03 | | | |
|---|--|---|---|---|---|
| Release date | | Updated - October 31st, 2020 | | | |
| Major vSphere Release: | | 6.5U3EP21, Build 16901156 | 6.7U3 EP16, Build 16901156 | 7.0 GA, Build 15843807 | |
| Compute Nodes (Based off DS120): | | | | | |
| Components | | Versions | Versions | Versions | Notes |
| BIOS | | 3B17.H00 | 3B17.H00 | 3B17.H00 | |
| BMC | | 4.66.06 | 4.66.06 | 4.66.06 | |
| CPLD | | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | |
| CPU Family | | Skylake / Cascade Lake | Skylake / Cascade Lake | Skylake / Cascade Lake | |
| Compute Nodes (Based off DS220): | | | | | |
| Components | | Versions | Versions | Versions | Notes |
| BIOS | | 3B17.H00 | 3B17.H00 | 3B17.H00 | |
| BMC | | 4.66.06 | 4.66.06 | 4.66.06 | |
| CPLD | | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | |
| CPU Family | | Skylake / Cascade Lake | Skylake / Cascade Lake | Skylake / Cascade Lake | |
| Compute Nodes (Based off DS225): | | | | | |
| Components | | Versions | Versions | Versions | Notes |
| BIOS | | 3B17.H00 | 3B17.H00 | 3B17.H00 | |
| BMC | | 4.66.06 | 4.66.06 | 4.66.06 | |
| CPLD | | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | |
| CPU Family | | Skylake / Cascade Lake | Skylake / Cascade Lake | Skylake / Cascade Lake | |
| Compute Nodes (Based off DS240): | | | | | |
| Components | | Versions | Versions | Versions | Notes |
| BIOS | | 3B17.H00 | 3B17.H00 | 3B17.H00 | |
| BMC | | 4.66.06 | 4.66.06 | 4.66.06 | |
| CMC | | N/A | N/A | N/A | |
| CPLD | | E01 | E01 | E01 | |
| CPU Family | | Skylake | Skylake | Skylake | |
| I/O Card Support for DS120/220/225 | | | | | |
| Components | | Versions | Versions | Versions | Notes |
| Network Cards (Options) | | | | | |
| Intel X527-DA4, 10GbE quad-port, OCP Mezz VID=8086, DVID=37d3, SVID=152d, SSID=8a3f or 8a41 | Firmware i40en Driver (ESXi) | 4.00 1.7.17 | 4.00 1.7.17 | 4.00 VMWare Inbox - 1.8.1.16 | Also listed on VMware HCL as: "Intel(R) Ethernet Connection X722 for 10GbE SFP+" |
| Intel X557-T4, 10GBase-T quad-port, OCP Mezz VID=8086, DVID=37d2, SVID=152d, SSID=8a3f | Firmware i40en Driver (ESXi) | 4.00 1.7.17 | 4.00 1.7.17 | 4.00 VMWare Inbox - 1.8.1.16 | Also listed on VMware HCL as: "Intel(R) Ethernet Connection X722 for 10GBASE-T" |
| Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe VID=8086, DVID=158b, SVID=8086, SSID=0002 | Firmware i40en Driver (ESXi) | 6.8 1.7.17 | 6.8 1.7.17 | 6.8 - or higher VMWare Inbox - 1.8.1.16 | Listed on VMware HCL as: "Intel(R) Ethernet Network Adapter XXV710-2" |
| Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (except DS240) VID=15b3, DVID=1015, SVID=152d, SSID=8a15 | Firmware nmlx4_core Driver (ESXi) nmlx5_core Driver (ESXi) | 14.23.1020 N/A 4.16.14.2 | 14.23.1020 N/A 4.17.14.2 | 14.23.1020 - or higher N/A VMWare Inbox - 4.19.16.7 | Listed on VMware HCL as: "ON 25GbE ConnectX-4 Lx EN Dual port" |
| Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2 (PCIe) VID=15b3, DVID=1015, SVID=152d, SSID=0003 | Firmware nmlx4_core Driver (ESXi) nmlx5_core Driver (ESXi) | 14.23.1020 N/A 4.16.14.2 | 14.23.1020 N/A 4.17.14.2 | 14.23.1020 - or higher N/A VMWare Inbox - 4.19.16.7 | Listed on VMware HCL as: "ConnectX-4 Lx EN NIC; 25GbE; dual-port SFP28; (MCX4121A-ACA)" |
| Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16 (Only for V220 Hybrid and V220F) VID=15b3, DVID=1017, SVID=15b3, SSID=0007 | Firmware nmlx4_core Driver (ESXi) nmlx5_core Driver (ESXi) | 16.23.1020 N/A 4.16.14.2 | 16.23.1020 N/A 4.17.14.2 | 16.23.1020 - or higher N/A VMWare Inbox - 4.19.16.7 | Listed on VMware HCL as: "ConnectX® 5 Ex EN network interface card, 100GbE dual-port QSFP28 (MCX516A-CCAT)" |
| HBA Controller | | | | | |
| Emulex LPe31002 FC HBA VID=10df, DVID=e300, SVID=10df, SSID=e310 | Firmware lpfc Driver (ESXi) | 12.0.193.13 12.0.193.14 | 12.6.182.8 12.0.193.14 | 12.6.182.8 VMWare Inbox - 12.4.293.3 | *Listed on VMware HCL as: "Emulex LightPulse LPe31002-M6 2-Port 16Gb Fibre Channel Adapter" *HBA is OPTIONAL on HC nodes. |
| Emulex LPe32002 FC HBA VID=10df, DVID=e300, SVID=10df, SSID=e300 | Firmware lpfc Driver (ESXi) | 12.0.193.13 12.0.193.14 | 12.6.182.8 12.0.193.14 | 12.6.182.8 VMWare Inbox - 12.4.293.3 | *Listed on VMware HCL as: "Emulex LightPulse LPe31002-M6 2-Port 16Gb Fibre Channel Adapter" *HBA is OPTIONAL on HC nodes. |
| RAID Controller | | | | | |
| Broadcom SAS3516 2GB RAID Mezzanine (only for DS240) | Firmware lsi-m3 Driver (ESXi) | 5.040.00-1123 7.707.11.0 | 5.040.00-1123 7.707.11.0 | 5.040.00-1123 VMWare Inbox - 7.712.50.00 | Only for DS240 |
| Broadcom 9460-16i VID=1000, DVID=0014, SVID=1000, SSID=9460 | Firmware lsi-m3 Driver (ESXi) | 5.070.00-1615 7.707.11.0 | 5.070.00-1615 7.707.11.0 | 5.070.00-1615 VMWare Inbox - 7.712.50.00 | Listed on VMware HCL as: "MegaRAID SAS 9460-16i". Used for RAID Boot devices on exceptions. |
| SAS Controller | | | | | |
| QS-3216 Mezz Card (only for DS120/220) | Firmware lsi_msgpt3 Driver (ESXi) | 1A14 (15.00.00.00) (20190530) 16.00.00.00-10EM | 1A14 (15.00.00.00) (20190530) 16.00.00.00-10EM | 1A22(16.00.09.00) VMWare Inbox - 17.00.10.00 | Only for DS120 and DS220 LFF |
| Broadcom SAS9305-16i PCIe (only for DS225) | Firmware lsi_msgpt3 Driver (ESXi) | 15.00.00.00 16.00.00.00-10EM | 15.00.00.00 16.00.00.00-10EM | 16.00.90.00 VMWare Inbox - 17.00.10.00 | Only for DS225 and DS220 SFF |

| Drives for vSAN Cache and Capacity (Options) for DS120/220/225 | | | | | |
|--|---|--|--|---|--|
| Components | | Versions | Versions | Versions | Notes |
| Intel SSD DC P3600 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | 8DV101H0 | 8DV101H0 | 8DV101H0 | Not compatible with DS225 |
| Intel SSD DC P4500 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | QDV101D1 | QDV101D1 | QDV101D1 | Not compatible with DS225 |
| Intel SSD DC P4510 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | VDV10131 | VDV10170 | VDV10170 | Not compatible with DS225 |
| Intel SSD DC P4600 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | QDV101D1 | QDV101D1 | QDV101D1 | Not compatible with DS225 |
| Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | VDV10140 | VDV10170 | VDV10170 | Not compatible with DS225 |
| Intel Optane SSD DC P4800X Series NVMe (NVMe, 375GB, 2.5" U2) (All except DS225) | Firmware | E2010435 | E2010475 | E2010475 | Not compatible with DS225 |
| Intel Optane SSD DC P4800X Series NVMe (NVMe, 750GB, 2.5" U2) (All except DS225) | Firmware | E2010435 | E2010475 | E2010475 | Not compatible with DS225 |
| NVMe Driver | Driver (ESXi) | intel-nvme-vmd 1.8.1.1001 (Async driver) | intel-nvme-vmd 1.8.1.1001 (Async driver) | VMWare Inbox - nvme-pcie 1.2.2.13 | |
| Intel SSD DC S4500 Series | Firmware | Min = SCV10121 / Recommended = SCV10150 | Min = SCV10121 / Recommended = SCV10150 | Min = SCV10121 / Recommended = SCV10150 | * Requires SAS Controller * The min. version as listed on The VMWare CG * Strongly suggested to use recommended version. |
| Intel SSD DC S4510 Series | Firmware | Min = XCV10100 / Recommended = XCV10132 | Min = XCV10100 / Recommended = XCV10132 | Min = XCV10100 / Recommended = XCV10132 | * Requires SAS Controller * The min. version as listed on The VMWare CG * Strongly suggested to use recommended version. |
| Intel SSD DC S4600 Series | Firmware | Min = SCV10121 / Recommended = SCV10150 | Min = SCV10121 / Recommended = SCV10150 | Min = SCV10121 / Recommended = SCV10150 | * Requires SAS Controller * The min. version as listed on The VMWare CG * Strongly suggested to use recommended version. |
| Intel SSD DC S4610 Series | Firmware | Min = XCV10100 / Recommended = XCV10132 | Min = XCV10100 / Recommended = XCV10132 | Min = XCV10100 / Recommended = XCV10132 | * Requires SAS Controller * The min. version as listed on The VMWare CG * Strongly suggested to use recommended version. |
| Samsung SATA SSD PM863a Series | Firmware | GXT5204Q - or higher | GXT5204Q - or higher | GXT5204Q - or higher | Requires SAS Controller |
| Samsung SATA SSD PM883 Series | Firmware | HXT7304Q - or higher | HXT7304Q - or higher | HXT7304Q - or higher | Requires SAS Controller |
| Seagate SASIII HDD 10000 rpm, 2.5 inch | Firmware | E004 - or higher | E004 - or higher | E004 - or higher | Requires SAS Controller |
| Seagate SASIII HDD 7200 rpm, 3.5 inch (only for DS220 3.5 SKU) | Firmware | E002 - or higher | E002 - or higher | E002 - or higher | Requires SAS Controller |
| Intel SSD S4510 Series (240 GB, M.2 2280) | Firmware | Min = XC311120 / Recommended XC311132 | Min = XC311120 / Recommended XC311132 | Min = XC311120 / Recommended XC311132 | Only for DS240 Boot Device |
| Drives for vSAN Cache and Capacity (Options) for DS120/220 | | | | | |
| Components | | Versions | Versions | Versions | Notes |
| Intel® Optane™ DC 128 GB Persistent Memory Module (NMA1XXD128GPs) | Firmware | 1.2.0.5375 | 1.2.0.5375 | 1.2.0.5375 | |
| Intel® Optane™ DC 256 GB Persistent Memory Module (NMA1XXD256GPs) | Firmware | 1.2.0.5375 | 1.2.0.5375 | 1.2.0.5375 | |
| Intel® Optane™ DC 512 GB Persistent Memory Module (NMA1XXD512GPs) | Firmware | 1.2.0.5375 | 1.2.0.5375 | 1.2.0.5375 | |
| GPU for DS225 | | | | | |
| Components | | Versions | Versions | Versions | Notes |
| NVIDIA Tesla M10 | Nvidia Virtual GPU Software for vSphere | 450.55 | 450.55 | 450.55 | |
| NVIDIA Tesla M60 | Nvidia Virtual GPU Software for vSphere | 450.55 | 450.55 | 450.55 | |
| NVIDIA Tesla P40 | Nvidia Virtual GPU Software for vSphere | 450.55 | 450.55 | 450.55 | |
| NVIDIA Tesla V100 | Nvidia Virtual GPU Software for vSphere | 450.55 | 450.55 | 450.55 | |
| NVIDIA Tesla T4 | Nvidia Virtual GPU Software for vSphere | 450.55 | 450.55 | 450.55 | |
| Software | | | | | |
| Software Versions | | | | | |
| Vendor | Component | Versions | Versions | Versions | Notes |
| VMware | ESXi | 6.5U3 EP21 (Build # 16901156) | 6.7U3 EP16 (Build # 16773714) | 7.0GA (Build# 15843807) | |
| VMware | vCenter(VCSA) | 6.5U3L (Build # 16764584) | 6.7U3j (Build # 16708996) | 7.0GA (Build# 15952498) | |
| VMware | VSAN | 6.6.1 | 6.7 | 7.0 | |
| Hitachi | UCP Advisor | 3.5.1 or higher | 3.8 or higher | 3.8 or higher | |
| Downloadable ZIPs | | | | | |
| Vendor | Component | Filename | Filename | Filename | Notes |
| Hitachi | Server Firmware ZIP | Server_Firmware_20201031.zip | Server_Firmware_20201031.zip | Server_Firmware_20201031.zip | |
| Hitachi | vSphere6.5U3-EP21_20201031.zip | vSphere6.5U3-EP21_20201031.zip | vSphere6.7U3-EP16_20201031.zip | vSphere7.0GA_20200803.zip | |
| Hitachi | UCPToolkit ZIP | UCPToolkit_20201031.zip | UCPToolkit_20201031.zip | UCPToolkit_20201031.zip | |
| Main Mediakit ZIP | | | | | |
| Vendor | Component | Filename | Filename | Filename | Notes |
| Hitachi | UCP HC Mediakit | UCPHC_MEDIKIT_V3.6_20201031.zip | UCPHC_MEDIKIT_V3.6_20201031.zip | UCPHC_MEDIKIT_V3.6_20201031.zip | |

Note: An explanation to the logic of how Firmware versions are decided on for the various I/O cards. Solution Engineering uses the VMWare Compatibility Guide for supported versions and combinations.

Step 1 - For a given vSphere version, we check the driver/vib that is used for each I/O Adapter

Step 2 - For I/O cards that use the same driver (i.e. all Mellanox cards use nmlx_core Driver) we identify the version that is common across all adapters

Step 3* - For Each I/O card, using the common driver/vib version, we identify the supported firmware version for that driver/vib.

*This will sometimes result in selecting older versions of firmware for a given I/O adapter.

UCP HC Interoperability Matrix

| UCP HC Interoperability Matrix | | | | | | | |
|--|--|--|--|--|--|--|--|
| UCP HC v3.6 | | | | | | | |
| Hardware | | | | | | | |
| UCP HC (Release Version) | v3.0.0 | | | v3.5.0 | | v3.5.1 | |
| | September 30th, 2019 | | | December 2nd, 2019 | | February 14th, 2020 | |
| Major vSphere Release: | 6.5U3 | 6.7U3 | 6.5U3 | 6.7U3 | 6.5U3 | 6.7U3 | |
| Compute Nodes (Based off DS120): | V120F/V121F/V120 Hybrid/V123F/V124N | | | | | | |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| BIOS | 3B14.H01 | 3B14.H01 | 3B14.H01 | 3B14.H01 | 3B16.H00 | 3B16.H00 | |
| BMC | 4.62.06 | 4.62.06 | 4.62.06 | 4.62.06 | 4.64.06 | 4.64.06 | |
| CPUD | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | |
| CPU Family | SkyLake / Cascade Lake | | | | | | |
| Compute Nodes (Based off DS220): | V220 Hybrid/V220F | | | | | | |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| BIOS | 3B14.H01 | 3B14.H01 | 3B14.H01 | 3B14.H01 | 3B16.H00 | 3B16.H00 | |
| BMC | 4.62.06 | 4.62.06 | 4.62.06 | 4.62.06 | 4.64.06 | 4.64.06 | |
| CPUD | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | |
| CPU Family | SkyLake / Cascade Lake | | | | | | |
| Compute Nodes (Based off DS225): | V225G | | | | | | |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| BIOS | 3B14.H01 | 3B14.H01 | 3B14.H01 | 3B14.H01 | 3B16.H00 | 3B16.H00 | |
| BMC | 4.62.06 | 4.62.06 | 4.62.06 | 4.62.06 | 4.64.06 | 4.64.06 | |
| CPUD | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | Rev10 / Rev11 | |
| CPU Family | SkyLake / Cascade Lake | | | | | | |
| Compute Nodes (Based off DS240): | N/A | | | | | | |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| BIOS | N/A | N/A | N/A | N/A | N/A | N/A | Newly added for UCP HC v3.5.1 Update |
| BMC | N/A | N/A | N/A | N/A | N/A | N/A | Newly added for UCP HC v3.5.1 Update |
| CMC | N/A | N/A | N/A | N/A | N/A | N/A | Newly added for UCP HC v3.5.1 Update |
| CPUD | N/A | N/A | N/A | N/A | N/A | N/A | Newly added for UCP HC v3.5.1 Update |
| CPU Family | N/A | | | | | | |
| I/O Card Support for DS120/220/225 | Versions | | | | | | |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| Network Cards (Options) | | | | | | | |
| Intel X527-D41, 10GbE quad-port, OCP Mezz | Firmware | 3.2d | 4.00 | 3.2d | 4.00 | 3.2d | 4.00 |
| | i40en Driver (ESX) | 1.5.6 | 1.7.17 | 1.5.6 | 1.7.17 | 1.5.6 | 1.7.17 |
| Intel X557-T4, 10GbE-T quad-port, OCP Mezz | Firmware | 3.2d | 4.00 | 3.2d | 4.00 | 3.2d | 4.00 |
| | i40en Driver (ESX) | 1.5.6 | 1.7.17 | 1.5.6 | 1.7.17 | 1.5.6 | 1.7.17 |
| Intel XCV710-D42, 10/25/40GbE dual-port, PCIe | Firmware | 6.0.1 | 6.80 | 6.0.1 | 6.80 | 6.0.1 | 6.80 |
| | i40en Driver (ESX) | 1.5.6 | 1.7.17 | 1.5.6 | 1.7.17 | 1.5.6 | 1.7.17 |
| Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (except DS240) | Firmware | 14.23.1020 | 14.23.1020 | 14.23.1020 | 14.23.1020 | 14.23.1020 | 14.23.1020 |
| | mlx4_core Driver (ESX) | N/A | N/A | N/A | N/A | N/A | N/A |
| | mlx5_core Driver (ESX) | 4.16.14.2 | 4.16.14.2 | 4.16.14.2 | 4.16.14.2 | 4.16.14.2 | 4.17.14.2 |
| Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2 (PCIe) | Firmware | 14.23.1020 | 14.23.1020 | 14.23.1020 | 14.23.1020 | 14.23.1020 | 14.23.1020 |
| | mlx4_core Driver (ESX) | N/A | N/A | N/A | N/A | N/A | N/A |
| | mlx5_core Driver (ESX) | 4.16.14.2 | 4.16.14.2 | 4.16.14.2 | 4.16.14.2 | 4.16.14.2 | 4.17.14.2 |
| Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16 (Only for V220 Hybrid and V220F) | Firmware | 14.23.1020 | 14.23.1020 | 14.23.1020 | 14.23.1020 | 14.23.1020 | 14.23.1020 |
| | mlx4_core Driver (ESX) | N/A | N/A | N/A | N/A | N/A | N/A |
| | mlx5_core Driver (ESX) | 4.16.14.2 | 4.16.14.2 | 4.16.14.2 | 4.16.14.2 | 4.16.14.2 | 4.17.14.2 |
| HBA Controller | | | | | | | |
| Emulex LPe31002 FC HBA | Firmware | N/A | N/A | N/A | N/A | N/A | N/A |
| | lpfc Driver (ESX) | N/A | N/A | N/A | N/A | N/A | N/A |
| Emulex LPe32002 FC HBA | Firmware | N/A | N/A | N/A | N/A | N/A | N/A |
| | lpfc Driver (ESX) | N/A | N/A | N/A | N/A | N/A | N/A |
| RAID Controller | | | | | | | |
| Broadcom SAS316 2GB RAID Mezzanine (only for DS240) | Firmware | N/A | N/A | N/A | N/A | N/A | N/A |
| | lsi-mr3 Driver (ESX) | N/A | N/A | N/A | N/A | N/A | N/A |
| SAS Controller | | | | | | | |
| QS-3216 Mezz Card (only for DS120/220) | Firmware | 1A14 (15.00.00.00) (20190530) | 1A14 (15.00.00.00) (20190530) | 1A14 (15.00.00.00) (20190530) | 1A14 (15.00.00.00) (20190530) | 1A14 (15.00.00.00) (20190530) | 1A14 (15.00.00.00) (20190530) |
| | lsi_sasport3 Driver (ESX) | 16.00.00.00-10EM | 16.00.00.00-10EM | 16.00.00.00-10EM | 16.00.00.00-10EM | 16.00.00.00-10EM | 16.00.00.00-10EM |
| Broadcom SAS9305-16i PCIe (only for DS225) | Firmware | 15.00.00.00 | 15.00.00.00 | 15.00.00.00 | 15.00.00.00 | 15.00.00.00 | 15.00.00.00 |
| | lsi_sasport3 Driver (ESX) | 16.00.00.00-10EM | 16.00.00.00-10EM | 16.00.00.00-10EM | 16.00.00.00-10EM | 16.00.00.00-10EM | 16.00.00.00-10EM |
| Drives for vSAN Cache and Capacity (Options) for DS120/220/225 | | | | | | | |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| Intel SSD DC P3600 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | N/A | N/A | N/A | N/A | N/A | Not compatible with V225G |
| Intel SSD DC P4600 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | 0DV10101 | 0DV10101 | 0DV10101 | 0DV10101 | 0DV10101 | Not compatible with V225G |
| Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | VDV10131 | VDV10131 | VDV10131 | VDV10131 | VDV10131 | Not compatible with V225G |
| Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | 0DV10101 | 0DV10101 | 0DV10101 | 0DV10101 | 0DV10101 | Not compatible with V225G |
| Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | VDV10140 | VDV10140 | VDV10140 | VDV10140 | VDV10140 | Not compatible with V225G |
| Intel Optane SSD DC P4800X Series (NVMe, 375GB, 2.5" U2) (All except DS225) | Firmware | E2010435 | E2010435 | E2010435 | E2010435 | E2010435 | Not compatible with V225G |
| Intel Optane SSD DC P4800X Series (NVMe, 750GB, 2.5" U2) (All except DS225) | Firmware | E2010435 | E2010435 | E2010435 | E2010435 | E2010435 | Not compatible with V225G |
| NVMe Driver | Driver (ESX) | intel-nvme-vmd 1.6.0.1003 (Async driver) | intel-nvme-vmd 1.6.0.1003 (Async driver) | intel-nvme-vmd 1.6.0.1003 (Async driver) | intel-nvme-vmd 1.6.0.1003 (Async driver) | intel-nvme-vmd 1.6.0.1003 (Async driver) | intel-nvme-vmd 1.6.0.1003 (Async driver) |
| Intel SSD DC S4500 Series | Firmware | SCV10121 | SCV10121 | SCV10121 | SCV10121 | SCV10121 | Requires SAS Controller |
| Intel SSD DC S4510 Series | Firmware | KCV10100 | KCV10100 | KCV10100 | KCV10100 | KCV10100 | Requires SAS Controller |
| Intel SSD DC S4600 Series | Firmware | SCV10121 | SCV10121 | SCV10121 | SCV10121 | SCV10121 | Requires SAS Controller |
| Intel SSD DC S4610 Series | Firmware | KCV10100 | KCV10100 | KCV10100 | KCV10100 | KCV10100 | Requires SAS Controller |
| Samsung SATA SSD PM883a Series | Firmware | GXT12040 | GXT12040 | GXT12040 | GXT12040 | GXT12040 | Requires SAS Controller |
| Samsung SATA SSD PM883 Series | Firmware | HXT12040 | HXT12040 | HXT12040 | HXT12040 | HXT12040 | Requires SAS Controller |
| Seagate SASIII HDD 10000 rpm, 2.5 inch | Firmware | E004 | E004 | E004 | E004 | E004 | Requires SAS Controller |
| Seagate SASIII HDD 7200 rpm, 3.5 inch (only for DS220 & 5 SKU) | Firmware | E002 | E002 | E002 | E002 | E002 | Requires SAS Controller |
| Intel SSD S4510 Series (240 GB, M.2 Z80) | Firmware | N/A | N/A | N/A | N/A | N/A | Only for DS240 Boot Device |
| GPU for DS225 | Versions | | | | | | |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| NVIDIA Tesla M10 | Nvidia Virtual GPU Software for vSphere | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 |
| NVIDIA Tesla M60 | Nvidia Virtual GPU Software for vSphere | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 |
| NVIDIA Tesla P40 | Nvidia Virtual GPU Software for vSphere | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 |
| NVIDIA Tesla V100 | Nvidia Virtual GPU Software for vSphere | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 |
| NVIDIA Tesla T4 | Nvidia Virtual GPU Software for vSphere | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 |
| | | N/A | N/A | N/A | N/A | N/A | N/A |

Software

| Software Versions | | | | | | | | |
|-------------------|---------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---|
| Vendor | Component | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| VMware | ESX | 6.5U3 (Build # 84320405) | 6.7U3 (Build # 14320388) | 6.5U3 (Build # 84320405) | 6.7U3 (Build # 14320388) | 6.5U3 (Build # 84320405) | 6.7U3 (Build # 14320388) | |
| VMware | vCenter/VCSA | 6.5U3 (Build # 14020992) | 6.7U3 (Build # 14367737) | 6.5U3 (Build # 14020992) | 6.7U3 (Build # 14367737) | 6.5U3 (Build # 14020992) | 6.7U3 (Build # 14367737) | |
| VMware | VSAN | 6.5.1 | 6.7 | 6.5.1 | 6.7 | 6.5.1 | 6.7 | |
| Hitachi | UCP Advisor | 3.0 | 3.0 | 3.5* | 3.5* | 3.5* | 3.5* | * Requires at least VCSA 6.5U2c * When available |
| Downloadable ZIPs | | | | | | | | |
| Vendor | Component | Filename | Filename | Filename | Filename | Filename | Filename | Notes |
| Hitachi | Server Firmware ZIP | Server_Firmware_20190923.zip | Server_Firmware_20190923.zip | Server_Firmware_20190923.zip | Server_Firmware_20190923.zip | Server_Firmware_20200129.zip | Server_Firmware_20200129.zip | |
| Hitachi | VMware Software ZIP | vSphere6.5U3_20190923.zip | vSphere6.7U3_20190923.zip | vSphere6.5U3_20190923.zip | vSphere6.7U3_20190923.zip | vSphere6.5U3_20190923.zip | vSphere6.7U3_20190923.zip | |
| Hitachi | UCP Toolkit ZIP | UCPToolkit_20190923.zip | UCPToolkit_20190923.zip | UCPToolkit_20191126.zip | UCPToolkit_20191126.zip | UCPToolkit_20200705.zip | UCPToolkit_20200705.zip | |
| Main Mediakit ZIP | | | | | | | | |
| Vendor | Component | Filename | Filename | Filename | Filename | Filename | Filename | Notes |
| Hitachi | UCP HC Mediakit | UCPHC_MEDIKIT_V3.0.0_20190923.zip | UCPHC_MEDIKIT_V3.0.0_20190923.zip | UCPHC_MEDIKIT_V3.5.0_20191127.zip | UCPHC_MEDIKIT_V3.5.0_20191127.zip | UCPHC_MEDIKIT_V3.5.1_20200205.zip | UCPHC_MEDIKIT_V3.5.1_20200205.zip | |

| UCP HC Interoperability Matrix | | | | | | | | | | |
|--|---|-------------------------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|--|
| UCP HC v2.3.0 - v2.5.0 | | | | | | | | | | |
| Hardware | | | | | | | | | | |
| UCP HC (Release Version) | v2.3.0 | | v2.3.1 | | | v2.3.2 | | v2.5.0 | | |
| Release date | August 6th, 2018 | | November 5th, 2018 | | | March 4th, 2019 | | September 3rd, 2019 | | |
| Major vSphere Release: | 6.5U2 | | 6.5U2 | | | 6.5U2 | | 6.5U2 | | |
| | N/A | | V120F/V121F/V120 Hybrid/V123F/V124N | | | V120F/V121F/V120 Hybrid/V123F/V124N | | V120F/V121F/V120 Hybrid/V123F/V124N | | |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Notes | |
| Compute Nodes (Based off DS120): | | | | | | | | | | |
| Components | | | | | | | | | | |
| BIOS | N/A | 3A10.H8 | 3A10.H8 | 3A10.H8 | 3A10.H8 | 3A10.H8 | 3B14.H01 | 3B14.H01 | | |
| BMC | N/A | 4.23.06 | 4.23.06 | 4.23.06 | 4.23.06 | 4.23.06 | 4.62.06 | 4.62.06 | | |
| CPLD | N/A | Rev10 | Rev10 | Rev10 | Rev10 | Rev10 | Rev10 / Rev11 | Rev10 / Rev11 | | |
| CPU Family | N/A | SkyLake | SkyLake | SkyLake | SkyLake | SkyLake | SkyLake / Cascade Lake | SkyLake / Cascade Lake | | |
| Compute Nodes (Based off DS220): | | | | | | | | | | |
| Components | | | | | | | | | | |
| BIOS | N/A | 3A10.H8 | 3A10.H8 | 3A10.H8 | 3A10.H8 | 3A10.H8 | 3B14.H01 | 3B14.H01 | | |
| BMC | N/A | 4.23.06 | 4.23.06 | 4.23.06 | 4.23.06 | 4.23.06 | 4.62.06 | 4.62.06 | | |
| CPLD | N/A | Rev10 | Rev10 | Rev10 | Rev10 | Rev10 | Rev10 / Rev11 | Rev10 / Rev11 | | |
| CPU Family | N/A | SkyLake | SkyLake | SkyLake | SkyLake | SkyLake | SkyLake / Cascade Lake | SkyLake / Cascade Lake | | |
| Compute Nodes (Based off DS240): | | | | | | | | | | |
| Components | | | | | | | | | | |
| BIOS | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| BMC | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| CPLD | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| CPU Family | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| IO Card Support for DS120/220/225 | | | | | | | | | | |
| Components | | | | | | | | | | |
| Network Cards (Options) | | | | | | | | | | |
| Intel X527-DA, 10GbE quad-port, OCP Mezz | Firmware | 3.2d | 3.2d | 3.2d | 3.2d | 3.2d | 3.2d | 4.00 | | |
| Intel X557-T4, 10GbE Base-T quad-port, OCP Mezz | Firmware | 1.5.6 | 1.5.6 | 1.5.6 | 1.5.6 | 1.5.6 | 1.5.6 | 4.00 | Intel(R) Ethernet Connection X722 for 10GbE SFP** | |
| Intel XXV710-DA2, 10/25/40GbE dual-port, PCIe | Firmware | 6.0.1 | 6.0.1 | 6.0.1 | 6.0.1 | 6.0.1 | 6.0.1 | 6.80 | | |
| Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (except DS240) | Firmware | 14.20.1010 | 14.20.1010 | 14.20.1010 | 14.20.1010 | 14.20.1010 | 14.20.1010 | 14.20.1010 | 14.20.1010 | Listed on VMware HCL as: "10N 25GbE ConnectX-4 Lx EN Dual port" |
| Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MDZ (PCIe) | Firmware | 14.20.1010 | 14.20.1010 | 14.20.1010 | 14.20.1010 | 14.20.1010 | 14.20.1010 | 14.20.1010 | 14.20.1010 | Listed on VMware HCL as: "ConnectX-4 Lx EN NIC, 25GbE; dual-port SFP28; [MCKX121A-MCAT]" |
| Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16 (Only for V220 Hybrid and V220F) | Firmware | 4.16.10.3 | 4.16.10.3 | 4.16.10.3 | 4.16.10.3 | 4.16.10.3 | 4.16.14.2 | 4.16.14.2 | 4.16.14.2 | Listed on VMware HCL as: "ConnectX-5 Ex-En network interface card, 100GbE dual-port QSFP28 [MCKX16A-CCAT]" |
| HBA Controller | | | | | | | | | | |
| Emulex LPe31002 FC HBA | Firmware | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Emulex LPe32002 FC HBA | Firmware | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| RAID Controller | | | | | | | | | | |
| Broadcom SAS3516 2GB RAID Mezzanine (only for DS240) | Firmware | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Only for DS240 |
| SAS Controller | | | | | | | | | | |
| QS-3216 Mezz Card (only for DS120/220) | Firmware | 1A14 (15.00.00.00) | 1A14 (15.00.00.00) | 1A14 (15.00.00.00) | 1A14 (15.00.00.00) | 1A14 (15.00.00.00) | 1A14 (15.00.00.00) (20190530) | 1A14 (15.00.00.00) (20190530) | 1A14 (15.00.00.00) (20190530) | Only for DS120 and DS220 |
| Broadcom SAS9305-16i PCIe (only for DS225) | Firmware | 16.00.00-10EM | 16.00.00-10EM | 16.00.00-10EM | 16.00.00-10EM | 16.00.00-10EM | 16.00.00-10EM | 16.00.00-10EM | 16.00.00-10EM | Only for DS225 |
| Drives for vSAN Cache and Capacity (Options) for DS120/220/225 | | | | | | | | | | |
| Components | | | | | | | | | | |
| Intel SSD DC P560 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Not compatible with V225G |
| Intel SSD DC P4600 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | N/A | QDV30103 (Only for V128F) | N/A | QDV30103 (Only for V128F) | N/A | QDV30103 (Only for V128F) | N/A | N/A | Not compatible with V225G |
| Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | N/A | VDV30131 (Only for V128F) | N/A | VDV30131 (Only for V128F) | N/A | VDV30131 (Only for V128F) | N/A | N/A | Not compatible with V225G |
| Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225) | Firmware | N/A | QDV30104, QDV30103 (Only for V128F) | N/A | QDV30104, QDV30103 (Only for V128F) | N/A | QDV30104, QDV30103 (Only for V128F) | N/A | N/A | Not compatible with V225G |
| Intel Optane SSD DC P4800X Series (NVMe, 375GB, 2.5" U2) (All except DS225) | Firmware | N/A | E2010435 (Only for V128F) | N/A | E2010435 (Only for V128F) | N/A | E2010435 (Only for V128F) | N/A | N/A | Not compatible with V225G |
| Intel Optane SSD DC P4800X Series (NVMe, 750GB, 2.5" U2) (All except DS225) | Firmware | N/A | E2010435 (Only for V128F) | N/A | E2010435 (Only for V128F) | N/A | E2010435 (Only for V128F) | N/A | N/A | Not compatible with V225G |
| NVMe Drive | | | | | | | | | | |
| Intel SSD DC S4610 Series | Firmware | SCV10121 | SCV10121 | SCV10121 | SCV10121 | SCV10121 | SCV10121 | SCV10121 | SCV10121 | Requires SAS Controller |
| Intel SSD DC S4610 Series | Firmware | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Requires SAS Controller |
| Intel SSD DC S4610 Series | Firmware | SCV10121 | SCV10121 | SCV10121 | SCV10121 | SCV10121 | SCV10121 | SCV10121 | SCV10121 | Requires SAS Controller |
| Intel SSD DC S4610 Series | Firmware | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Requires SAS Controller |
| Samsung SATA SSD PM883 Series | Firmware | 04T32040 | 04T32040 | 04T32040 | 04T32040 | 04T32040 | 04T32040 | 04T32040 | 04T32040 | Requires SAS Controller |
| Samsung SATA SSD PM883 Series | Firmware | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Requires SAS Controller |
| Seagate SATAIII HDD 10000 rpm, 2.5 inch | Firmware | E004 | E004 | E004 | E004 | E004 | E004 | E004 | E004 | Requires SAS Controller |
| Seagate SATAIII HDD 7200 rpm, 3.5 inch (only for DS120 3.5 SKU) | Firmware | E002 | E002 | E002 | E002 | E002 | E002 | E002 | E002 | Requires SAS Controller |
| GPU for DS225 | | | | | | | | | | |
| Components | | | | | | | | | | |
| NVIDIA Tesla M10 | NVIDIA Virtual GPU Software for vSphere | 390.72 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | |
| NVIDIA Tesla M60 | NVIDIA Virtual GPU Software for vSphere | 390.72 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | |
| NVIDIA Tesla P40 | NVIDIA Virtual GPU Software for vSphere | 390.72 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | |
| NVIDIA Tesla V100 | NVIDIA Virtual GPU Software for vSphere | 390.72 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | 390.94 | |
| Software Versions | | | | | | | | | | |
| Vendor | Component | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Notes | |
| VMware | ESXi | 6.5U2 (Build # 8294253) | 6.5U2 (Build # 10390116) | 6.7U1 (Build # 10302608) | 6.5U2 (Build # 10390116) | 6.7U1 (Build # 10764712) | 6.5U2 (Build # 83635600) | 6.7U2 (Build # 13644319) | | |
| VMware | vCenter/VCGA | 6.5U2 (Build # 8307201) | 6.5U2 (Build # 9451637) | 6.7U1 (Build # 10244745) | 6.5U2 (Build # 9451637) | 6.7U1 (Build # 10244745) | 6.5U2 (Build # 13638625) | 6.7U2 (Build # 13643870) | | |
| VMware | vSAN | 6.6.1 P2 | 6.6.1 P10 | 6.6.1 P10 | 6.6.1 P10 | 6.6.1 P14 | 6.6.1 P14 | 6.6.1 P14 | | |
| Hitachi | UCP Advisor | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | * Requires at least VCSA 6.5U2c | |
| Downloadable ZIPs | | | | | | | | | | |
| Vendor | Component | Filename | Filename | Filename | Filename | Filename | Filename | Filename | Notes | |
| Hitachi | Server Firmware ZIP | N/A | N/A | N/A | N/A | N/A | Server_Firmware_20190805.zip | Server_Firmware_20190805.zip | | |
| Hitachi | VMware Software ZIP | N/A | N/A | N/A | N/A | N/A | vSphere6.7U2_20190619.zip | vSphere6.7U2_20190619.zip | | |
| Hitachi | UCP Toolkit ZIP | N/A | N/A | N/A | N/A | N/A | UCPToolkit_20190805.zip | UCPToolkit_20190805.zip | | |
| Main MediaKit ZIP | | | | | | | | | | |
| Vendor | Component | Filename | Filename | Filename | Filename | Filename | Filename | Filename | Notes | |
| Hitachi | UCP HC MediaKit | N/A | N/A | N/A | N/A | N/A | UCPHC_MEDIAKIT_V2.5.0_20190806.zip | UCPHC_MEDIAKIT_V2.5.0_20190806.zip | | |

| UCP HC Interoperability Matrix | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|--|
| UCP HC v1.0 - v2.3.0 Hardware | | | | | | | | | | | |
| UCP HC (Release Version) | v1.0 | | v1.0 | | v2.0 | | v2.1 | | v2.2 | | v2.3.0 |
| Release date | September 7th, 2017 | | January 9th, 2018 | | November 20, 2017 | | April 9th, 2018 | | April 8th, 2018 | | August 6th, 2018 |
| Major vSphere Release: | 6.5U1 | | 6.5U1 | | 6.5U1 | | 6.5U1 | | 6.5U1 | | 6.5U2 |
| Compute Nodes (Based off DS120): | V120F | | N/A | | V120F/V121F | | V120F/V121F | | V120F/V121F/V120 Hybrid/V123F | | N/A |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| BIOS | 3A10.H2 | N/A | 3A10.H2 | N/A | 3A10.H2 | 3A10.H3 | N/A | 3A10.H3 | N/A | 3A10.H3 | N/A |
| BMC | 3.15.06 | N/A | 3.15.06 | N/A | 3.15.06 | 3.75.06 | N/A | 3.75.06 | N/A | 3.75.06 | N/A |
| CPUD | Rev9 | N/A | Rev9 | N/A | Rev9 | Rev10 | N/A | Rev10 | N/A | Rev10 | N/A |
| CPU Family | SkyLake | N/A | SkyLake | N/A | SkyLake | SkyLake | N/A | SkyLake | N/A | SkyLake | N/A |
| Compute Nodes (Based off DS220): | N/A | | V220 Hybrid | | N/A | | N/A | | V220 Hybrid | | V220 Hybrid |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| BIOS | N/A | N/A | 3A10.H2 | N/A | N/A | 3A10.H3 | N/A | 3A10.H3 | N/A | 3A10.H3 | N/A |
| BMC | N/A | N/A | 3.67.06 | N/A | N/A | 3.75.06 | N/A | 3.75.06 | N/A | 3.75.06 | N/A |
| CPUD | N/A | N/A | Rev10 | N/A | N/A | Rev10 | N/A | Rev10 | N/A | Rev10 | N/A |
| CPU Family | N/A | N/A | SkyLake | N/A | N/A | SkyLake | N/A | SkyLake | N/A | SkyLake | N/A |
| Compute Nodes (Based off DS225): | N/A | | N/A | | N/A | | N/A | | N/A | | V225G |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| BIOS | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 3A10.H8 | N/A |
| BMC | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 4.23.06 | N/A |
| CPUD | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | Rev10 | N/A |
| CPU Family | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | SkyLake | N/A |
| Compute Nodes (Based off DS240): | N/A | | N/A | | N/A | | N/A | | N/A | | N/A |
| Components | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| BIOS | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| BMC | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| CPUD | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| CPU Family | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| I/O Card Support for DS120/220/225 | Components | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| Network Cards (Options) | Intel X520-D4, 10GbE quad-port, OCP Mezz | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Listed on VMware HCL as: "Intel® Ethernet Connection X722 for 10GbE SFP+" |
| Intel X557-T4, 10GbBase-T quad-port, OCP Mezz | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Firmware: 3.2d i40e Driver (ESX): 3.3 (inbox driver) | Listed on VMware HCL as: "Intel® Ethernet Connection X722 for 10GbE 1-T" |
| Intel XXV710-D42, 10/25/40GbE dual-port, PCIe | Firmware: N/A i40e Driver (ESX): N/A | Firmware: N/A i40e Driver (ESX): N/A | Firmware: N/A i40e Driver (ESX): N/A | Firmware: N/A i40e Driver (ESX): N/A | Firmware: N/A i40e Driver (ESX): N/A | Firmware: N/A i40e Driver (ESX): N/A | Firmware: N/A i40e Driver (ESX): N/A | Firmware: N/A i40e Driver (ESX): N/A | Firmware: N/A i40e Driver (ESX): N/A | Firmware: N/A i40e Driver (ESX): N/A | Listed on VMware HCL as: "QNIC Connect 4-LX EN Dual port" |
| Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, OCP Mezz (except DS240) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Listed on VMware HCL as: "ConnectX-4-LX EN Dual port" |
| Mellanox ConnectX-4 Lx EN 10/25GbE dual-port SFP28, LP-MD2 (PCIe) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Firmware: 14.18.1000 mlx4_core Driver (ESX): 3.16.0.0.1 (inbox driver) | Listed on VMware HCL as: "ConnectX-4-LX EN NIC, 25GbE, dual port SFP28, (MCK4121A-AA)" |
| Mellanox ConnectX-5 Lx EN 100GbE dual-port QSFP28, PCIe x16 (Only for V220 Hybrid and V220F) | Firmware: N/A mlx5_core Driver (ESX): N/A | Firmware: N/A mlx5_core Driver (ESX): N/A | Firmware: N/A mlx5_core Driver (ESX): N/A | Firmware: N/A mlx5_core Driver (ESX): N/A | Firmware: N/A mlx5_core Driver (ESX): N/A | Firmware: N/A mlx5_core Driver (ESX): N/A | Firmware: N/A mlx5_core Driver (ESX): N/A | Firmware: N/A mlx5_core Driver (ESX): N/A | Firmware: N/A mlx5_core Driver (ESX): N/A | Firmware: N/A mlx5_core Driver (ESX): N/A | Listed on VMware HCL as: "ConnectX-5-LX EN network interface card, 100GbE dual-port QSFP28 (MCK516A-CAAT)" |
| HBA Controller | Emulex LPe31002 FC HBA | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | N/A |
| Emulex LPe32002 FC HBA | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | Firmware: N/A lpe3 Driver (ESX): N/A | N/A |
| RAID Controller | Broadcom 94535 16 JBOD RAID Mezzanine (only for DS240) | Firmware: N/A lsi-m3 Driver (ESX): N/A | Firmware: N/A lsi-m3 Driver (ESX): N/A | Firmware: N/A lsi-m3 Driver (ESX): N/A | Firmware: N/A lsi-m3 Driver (ESX): N/A | Firmware: N/A lsi-m3 Driver (ESX): N/A | Firmware: N/A lsi-m3 Driver (ESX): N/A | Firmware: N/A lsi-m3 Driver (ESX): N/A | Firmware: N/A lsi-m3 Driver (ESX): N/A | Firmware: N/A lsi-m3 Driver (ESX): N/A | Only for DS240 |
| SAS Controller | Q5-3216 Mezz Card (only for DS120/220) | Firmware: 1A14 (15.00.00.00) lsi_megat3 Driver (ESX): 16.00.00.00-10EM | Firmware: 1A14 (15.00.00.00) lsi_megat3 Driver (ESX): 16.00.00.00-10EM | Firmware: 1A14 (15.00.00.00) lsi_megat3 Driver (ESX): 16.00.00.00-10EM | Firmware: 1A14 (15.00.00.00) lsi_megat3 Driver (ESX): 16.00.00.00-10EM | Firmware: 1A14 (15.00.00.00) lsi_megat3 Driver (ESX): 16.00.00.00-10EM | Firmware: 1A14 (15.00.00.00) lsi_megat3 Driver (ESX): 16.00.00.00-10EM | Firmware: 1A14 (15.00.00.00) lsi_megat3 Driver (ESX): 16.00.00.00-10EM | Firmware: 1A14 (15.00.00.00) lsi_megat3 Driver (ESX): 16.00.00.00-10EM | Firmware: 1A14 (15.00.00.00) lsi_megat3 Driver (ESX): 16.00.00.00-10EM | Only for DS120 and DS220 |
| Broadcom 9453005-16 PCIe (only for DS225) | Firmware: N/A lsi_megat3 Driver (ESX): N/A | Firmware: N/A lsi_megat3 Driver (ESX): N/A | Firmware: N/A lsi_megat3 Driver (ESX): N/A | Firmware: N/A lsi_megat3 Driver (ESX): N/A | Firmware: N/A lsi_megat3 Driver (ESX): N/A | Firmware: N/A lsi_megat3 Driver (ESX): N/A | Firmware: N/A lsi_megat3 Driver (ESX): N/A | Firmware: N/A lsi_megat3 Driver (ESX): N/A | Firmware: N/A lsi_megat3 Driver (ESX): N/A | Firmware: N/A lsi_megat3 Driver (ESX): N/A | Only for DS225 |
| Drives for vSAN Cache and Capacity (Options) for DS120/220/225 | Components | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| Intel SSD DC P4600 Series (NVMe, 2.5" U2) (All except DS225) | Firmware: 80V10171 | N/A | Firmware: 80V10171 | N/A | Firmware: 80V10171 | N/A | Firmware: 80V10171 | N/A | Firmware: 80V10171 | N/A | Not compatible with V225G |
| Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225) | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Not compatible with V225G |
| Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225) | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Not compatible with V225G |
| Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225) | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Not compatible with V225G |
| Intel SSD DC P4610 Series (NVMe, 2.5" U2) (All except DS225) | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Not compatible with V225G |
| Intel Optane SSD DC P4800 Series (NVMe, 375GB, 2.5" U2) (All except DS225) | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Not compatible with V225G |
| Intel Optane SSD DC P4800 Series (NVMe, 750GB, 2.5" U2) (All except DS225) | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Not compatible with V225G |
| NVMe Driver | Driver (ESX) | nvme-1.2.0.27-4vmw | nvme-1.2.0.27-4vmw | nvme-1.2.0.27-4vmw | nvme-1.2.0.27-4vmw | nvme-1.2.0.27-4vmw | nvme-1.2.0.27-4vmw | nvme-1.2.0.27-4vmw | nvme-1.2.0.27-4vmw | nvme-1.2.0.27-4vmw | N/A |
| Intel SSD DC S4500 Series | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Requires SAS Controller |
| Intel SSD DC S4510 Series | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Requires SAS Controller |
| Intel SSD DC S4600 Series | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Requires SAS Controller |
| Intel SSD DC S4610 Series | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Requires SAS Controller |
| Samsung SATA SSD PM863a Series | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Requires SAS Controller |
| Seagate SASIII HDD 10000 rpm, 2.5 inch | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Requires SAS Controller |
| Seagate SASIII HDD 7200 rpm, 3.5 inch (only for DS220 3.5 SKU) | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Firmware: N/A | N/A | Requires SAS Controller |
| CPU for DS225 | Components | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| NVIDIA Tesla M10 | Nvidia Virtual GPU Software for vSphere | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 390.72 |
| NVIDIA Tesla M60 | Nvidia Virtual GPU Software for vSphere | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 390.72 |
| NVIDIA Tesla P40 | Nvidia Virtual GPU Software for vSphere | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 390.72 |
| NVIDIA Tesla V100 | Nvidia Virtual GPU Software for vSphere | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 390.72 |
| Software | | | | | | | | | | | |
| Software Versions | Vendor | Component | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Versions | Notes |
| VMware | ESXi | ESXi | 6.5U1 (Build # 5969303) | 6.5U1 (Build # 5969303) | 6.5U1 (Build # 6785664) | 6.5U1 (Build # 7388607) | 6.5U1 (Build # 7388607) | 6.5U1 (Build # 8294253) | 6.5U1 (Build # 8294253) | 6.5U1 (Build # 8294253) | N/A |
| VMware | VCENTER/CSA | VCENTER/CSA | 6.5U1 (Build # 5973211) | 6.5U1 (Build # 5973211) | 6.5U1 (Build # 7515524) | 6.5U1 (Build # 7515524) | 6.5U1 (Build # 8307201) | 6.5U1 (Build # 8307201) | 6.5U1 (Build # 8307201) | 6.5U1 (Build # 8307201) | N/A |
| VMware | VSAN | VSAN | 6.6.1 | 6.6.1 | 6.6.1 | 6.6.2 | 6.6.2 | 6.6.1.12 | 6.6.1.12 | 6.6.1.12 | N/A |
| Hitachi | UCP Advisor | UCP Advisor | 2.0 | 2.0 | 2.0 | 2.5 | 2.5 | 2.5 | 2.5 | 2.7 | * Requires at least VCSA 6.5U2 |
| Downloadable ZIPs | Vendor | Component | Filename | Filename | Filename | Filename | Filename | Filename | Filename | Filename | Notes |
| Hitachi | Server Firmware ZIP | Server Firmware ZIP | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Hitachi | VMware Software ZIP | VMware Software ZIP | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Hitachi | UCP Toolkit ZIP | UCP Toolkit ZIP | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Main Medialkit ZIP | Vendor | Component | Filename | Filename | Filename | Filename | Filename | Filename | Filename | Filename | Notes |
| Hitachi | UCP HC Medialkit | UCP HC Medialkit | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Hitachi Unified Compute Platform HC for VMware

| UCP HC V210/V210F (*) | | | | | | | | | | | | | | | | |
|---|--|-------------------|---|-------------------|---|-------------------|---|-------------------|--|-------------------|--|-------------------|--|------------------|--|-------------------|
| Hardware | | | | | | | | | | | | | | | | |
| Compute Nodes: | | D51B-2U (2U1N) | | | | | | | | | | | | | | |
| UCP HC (Media Kit Version) | | 1.0 | 2.0 | | 3.0 | 4.0 | | 5.0 | 6.0 | | 6.1 | | | | | |
| Release date | | January 1, 2017 | | April 19, 2017 | | July 17, 2017 | | August 15, 2017 | | December 18, 2017 | | October 25, 2018 | July 15th, 2019 | | | |
| Components | | Versions | | Versions | | Versions | | Versions | | versions | | versions | | | | |
| BIOS | | S25_3809.01 | | S25_3809.01 | | S25_3809.01 | | S25_3809.01 | | S28_3810.03 | | S28_3810.03 | | | | |
| BMC | | 3.51 | | 3.51 | | 3.51 | | 3.51 | | 3.66 | | 3.73 | | | | |
| CPLD | | 09 | | Rev 9 | | Rev 9 | | Rev 9 | | Rev9 | | Rev9 | | | | |
| CPU Family | | Haswell/Broadwell | | Haswell/Broadwell | | Haswell/Broadwell | | Haswell/Broadwell | | Haswell/Broadwell | | Haswell/Broadwell | | | | |
| Network Cards (Options) | | | | | | | | | | | | | | | | |
| Intel Dual Port 10GigE SFP+ 82599ES OCP Mezz Card, and PCI Card | | Driver (ESXi) | (inbox driver) | | (inbox driver) | | (inbox driver) | | (inbox driver) | | (inbox driver) | (inbox driver) | | | | |
| Dual port GigE Base-T Intel i350 Mezz Card | | Driver (ESXi) | (inbox driver) | | (inbox driver) | | (inbox driver) | | (inbox driver) | | (inbox driver) | (inbox driver) | | | | |
| Dual port 10GigE Base-T Intel X540 Mezz Card, and PCI Card | | Driver (ESXi) | (inbox driver) | | (inbox driver) | | (inbox driver) | | (inbox driver) | | (inbox driver) | (inbox driver) | | | | |
| Mellanox CX3 40/56GbE, Dual Port QSFP | | Driver (ESXi) | (inbox driver) | | (inbox driver) | | (inbox driver) | | (inbox driver) | | (inbox driver) | (inbox driver) | | | | |
| I/O Controller | | | | | | | | | | | | | | | | |
| LSI SAS 3008 Mezz Card | | Firmware | [1A12] 09.00.00.00 | | [1A12] 09.00.00.00 | | [1A12] 09.00.00.00 | | [1A12] 09.00.00.00 | | [1A12] 09.00.00.00 | | [1A12] 09.00.00.00 | | | |
| | | Driver (ESXi) | lsi_msspt3 version 10.00.00.00-1OEM (Asyn driver) | | lsi_msspt3 version 10.00.00.00-1OEM (Asyn driver) | | lsi_msspt3 version 10.00.00.00-1OEM (Asyn driver) | | lsi_msspt3 version 10.00.00.00-1OEM (Asyn driver) | | lsi_msspt3 version 10.00.00.00-1OEM (Asyn driver) | | lsi_msspt3 version 10.00.00.00-1OEM (Asyn driver) | | | |
| Drives for vSAN Cache and Capacity (Options) | | | | | | | | | | | | | | | | |
| Intel® SSD DC S3700 Series | | Firmware | 5DV10265 | | 5DV10265 | | N/A | | N/A | | N/A | | N/A | | | |
| Intel® SSD DC S3710 Series | | Firmware | G2010140 | | G2010140 | | G2010140 | | G2010140 | | G2010140 | | G2010140 | | | |
| Samsung SSD PM863a | | Firmware | N/A | | GXT5204Q | | GXT5204Q | | GXT5204Q | | GXT5204Q | | GXT5204Q | | | |
| Seagate SAS HDD 10k rpm, 2.5 inch | | Firmware | 0002 | | 0002 | | 0002 | | 0002 | | 0002 | | 0002 | | | |
| Seagate SASIII HDD 7200 rpm, 3.5 inch | | Firmware | E001 | | E002 | | E002 | | E002 | | E002 | | E002 | | | |
| Software | | | | | | | | | | | | | | | | |
| Vendor | | Component | Versions | | | | | | | | | | | | | |
| VMware | | ESXi | 6.0 U2 (Build # 4600944) | | 6.0 U3 (Build # 5050593) | | 6.5 (Build # 5310538) | | 6.5 U1 (Build # 5969303) | | 6.5 U1 (Build # 6765664) | | 6.5U2 EP 10 (Build # 10390116) | 6.7.0U1-10302608 | 6.5U2-13635690 | 6.7.0U2-13644319 |
| | | vCenter (VCSA) | 6.0 U2 (Build # 3634788) | | 6.0 U3b (Build # 5326117) | | 6.5 (Build # 5318154) | | 6.5 U1 (Build # 5973321) | | 6.5 U1 (Build # 5973321) | | 6.5U2c (Build # 9451637) | 6.7.0-10244745 | 6.5U2g-13638625 | 6.7.0U2a-13643870 |
| | | vSAN | 6.2 | | 6.2 U3 | | 6.6 | | 6.6.1 | | 6.6.1 EP 10 | | 6.7.0U1 | 6.7.0U1 | 6.6.1 | 6.7.0U2 |
| | | | | | | | | | Note: On the Media kit, there is a specific package to update the vSphere via Update Manager | | Note: On the Media kit, there is a specific package to update the vSphere via Update Manager | | Note: On the Media kit, there is a specific package to update the vSphere via Update Manager | | Note: On the Media kit, there is a specific package to update the vSphere via Update Manager | |

(*) End-of-Sale

