

Quanta Cloud Technology

D51BV-2U

QCT provides the Compatible Components List (CCL) for channel partners and systems integrators to ensure compatibility when selecting components for full system integration. QCT has spent reasonable efforts to ensure the listed components have passed extensive testing with QCT hardware. QCT is not able to guarantee the quality and reliability of the third-party components. This compatibility list is provided for reference only and not to replace the full QCT hardware certification program.

OS CCL

OS Type	Support Level
Citrix XenServer Enterprise v6.2	(QCT Tested: Either OS or hypervisor successfully installed)
Microsoft Windows Server 2012 R2, including Hyper-V	(QCT Tested: Either OS or hypervisor successfully installed)
Red Hat Enterprise Linux 7.0 X86_64 including KVM	(QCT Tested: Either OS or hypervisor successfully installed)
Red Hat Enterprise Linux 6.5 (Update 5) X86_64 including KVM	(QCT Tested: Either OS or hypervisor successfully installed)
VMware vSphere 5.5 (ESXi 5.5u2) Update 2	(QCT Tested: Either OS or hypervisor successfully installed)

CPU CCL

Model	FSB	QPI Max	Core	Frequency	Watt	VendorPN
E5-2699 v3	NA	9.6GT/s	18 Core	2.3GHz	145W	CM8064401739300
E5-2698 v3	NA	9.6GT/s	16 core	2.3GHz	135W	CM8064401609800
E5-2697 v3	NA	9.6GT/s	14 core	2.6GHz	145W	CM8064401807100
E5-2695 v3	NA	9.6GT/s	14 core	2.3GHz	120W	CM8064401438110
E5-2690 v3	NA	9.6GT/s	12 Core	2.6GHz	135W	CM8064401439416
E5-2683 v3	NA	9.6GT/s	14 core	2.0GHz	120W	CM8064401609728
E5-2680 v3	NA	9.6GT/s	12 Core	2.5GHz	120W	CM8064401439612
E5-2670 v3	NA	9.6GT/s	12 Core	2.3GHz	120W	CM8064401544801
E5-2667 v3	NA	9.6GT/s	8 Core	3.2GHz	135W	CM8064401724301
E5-2660 v3	NA	9.6GT/s	10 core	2.6GHz	105W	CM8064401446117
E5-2650L v3	NA	9.6GT/s	12 Core	1.8GHz	65W	CM8064401575702
E5-2650 v3	NA	9.6GT/s	10 core	2.3GHz	105W	CM8064401723701
E5-2643 v3	NA	9.6GT/s	6 Core	3.4GHz	135W	CM8064401724501
E5-2640 v3	NA	8.0GT/s	8 Core	2.6GHz	90W	CM8064401830901
E5-2637 v3	NA	9.6GT/s	Quad	3.5GHz	135W	CM8064401724101
E5-2630L v3	NA	8.0GT/s	8 Core	1.8GHz	55W	CM8064401832100
E5-2630 v3	NA	8.0GT/s	8 Core	2.4GHz	85W	CM8064401831000
E5-2623 v3	NA	8.0GT/s	Quad	3.0GHz	105W	CM8064401832000
E5-2620 v3	NA	8.0GT/s	6 Core	2.4GHz	85W	CM8064401831400
E5-2609 v3	NA	6.4GT/s	6 Core	1.9GHz	85W	CM8064401850800
E5-2603 v3	NA	6.4GT/s	6 Core	1.6GHz	85W	CM8064401844200

Memory CCL

SDRAM Type	Frequency	Size	DIMM Type	Vendor	VendorPN
DDR4_LR	17000 (2133MHz)	32GB	Register	Micron	MTA72ASS4G72LZ-2G1A1
DDR4	17000 (2133MHz)	16GB	Register	Micron	MTA36ASF2G72PZ-2G1A2

Marketing summary report

DDR4	17000 (2133MHz)	16GB	Register	Samsung	M393A2G40DB0-CPB
DDR4	17000 (2133MHz)	16GB	Register	SK Hynix	HMA42GR7MFR4N-TF
DDR4	17000 (2133MHz)	8GB	Register	Micron	MTA18ASF1G72PZ-2G1A2
DDR4	17000 (2133MHz)	8GB	Register	Samsung	M393A1G40DB0-CPB
DDR4	17000 (2133MHz)	8GB	Register	SK Hynix	HMA41GR7MFR4N-TF

HDD CCL

Form Factor	Interface	Bandwidth	Capacity	Rpm	Vendor	Product family	Model	VendorPN
3.5	SASII	6 Gb/s	4TB	7.2 Krpm	WD	SX800M	WD4001FYYG-01SL3W1	WD4001FYYG-01SL3W1
3.5	SASII	6 Gb/s	3TB	7.2 Krpm	Seagate	Megalodon	ST3000NM0023	9ZM278-004
3.5	SASII	6 Gb/s	3TB	7.2 Krpm	WD	SX800M	WD3001FYYG	WD3001FYYG-01SL3W1
3.5	SASII	6 Gb/s	2TB	7.2 Krpm	Seagate	Megalodon	ST2000NM0023	9ZM275-004
3.5	SASII	6 Gb/s	1TB	7.2 Krpm	Seagate	Megalodon	ST1000NM0023	9ZM273-004
3.5	SASIII	12 Gb/s	6TB	7.2 Krpm	Seagate	Makara	ST6000NM0034	9ZM273-004
3.5	SASIII	12 Gb/s	4TB	7.2 Krpm	Seagate	Makara	ST4000NM0034	9ZM278-004
3.5	SASIII	12 Gb/s	2TB	7.2 Krpm	Seagate	Makara	ST2000NM0034	9ZM270-004
3.5	SATAIII	6 Gb/s	6TB	7.2 Krpm	Seagate	Makara	ST6000NM0024	1HT17Z-001
3.5	SATAIII	6 Gb/s	5TB	7.2 Krpm	Seagate	Makara	ST5000NM0024	1HT170-500
3.5	SATAIII	6 Gb/s	4TB	7.2 Krpm	Seagate	Makara	ST4000NM0024	1HT178-001
3.5	SATAIII	6 Gb/s	3TB	7.2 Krpm	Seagate	Megalodon	ST3000NM0033	9ZM178-004
3.5	SATAIII	6 Gb/s	2TB	7.2 Krpm	Seagate	Megalodon	ST2000NM0033	9ZM175-004
2.5	SASII	6 Gb/s	1.2TB	10 Krpm	HGST	Cobra-EP	HUC101212CSS600	0B25168
2.5	SASII	6 Gb/s	1.2TB	10 Krpm	Seagate	Ironman	ST1200MM0007	1DA200-002
2.5	SASII	6 Gb/s	900GB	10 Krpm	HGST	Cobra-E	HUC109090CSS600	0B26014
2.5	SASII	6 Gb/s	900GB	10 Krpm	Seagate	Lightning	ST900MM0006	9WH066-003
2.5	SASII	6 Gb/s	900GB	10 Krpm	Toshiba	Allegro AL13SE	AL13SEB900	NA-AL13SEB900
2.5	SASII	6 Gb/s	900GB	10 Krpm	WD	SL300M	WD9001BKHG	WD9001BKHG-02D22V3
2.5	SASII	6 Gb/s	600GB	10 Krpm	HGST	Cobra-E	HUC109060CSS600	0B26013
2.5	SASII	6 Gb/s	600GB	10 Krpm	Seagate	Lightning	NA	9WG066-003
2.5	SASII	6 Gb/s	600GB	10 Krpm	Seagate	Lightning	ST600MM0006	9WG066-003
2.5	SASII	6 Gb/s	450GB	10 Krpm	HGST	Cobra-E	HUC109045CSS600	0B26012
2.5	SASII	6 Gb/s	300GB	10 Krpm	HGST	Cobra-E	HUC109030CSS600	0B26011
2.5	SATAIII	6 Gb/s	1TB	7.2 Krpm	Seagate	Airwalker	ST91000640NS	9RZ168-003
2.5	SATAIII	6 Gb/s	500GB	7.2 Krpm	Seagate	Airwalker	ST9500620NS	9RZ164-003
2.5	SATAIII	6 Gb/s	320GB	7.2 Krpm	HGST	Jaguar-C7 EA	HTE725032A7E630	0J26053

Storage Card CCL

Form Factor	Bandwidth	Chip	Port	RAID	Onboard memory	Bus	Gen	Vendor	Model	VendorPN	BBU SuperCap
		NA	NA	RAID 6	NA	NA	NA	LSI	Lisence Key, RAID 6 for 2108	L3-25150-19	NA
		NA	NA	RAID 6	NA	NA	NA	LSI	Lisence Key, RAID 6 for 2208	L3-25188-15A	NA
FHHL	12Gbps	3008	16e	NA	NA	PCI-E X8	Gen 3	LSI	LSI-9300-16E	25520-00	NA
HHHL	12Gbps	3008	8i	NA	NA	PCI-E X8	Gen 3	LSI	LSI-9300-8I	25573-00	NA
HHHL	12Gbps	3008	8e	NA	NA	PCI-E X8	Gen 3	LSI	LSI-9300-8E	H5-25460-00	NA
HHHL	12Gbps	3108	8e	RAID 0,1,5,6,10,50,60	1GB	PCI-E X8	Gen 3	LSI	MegaRAID-9380-8E	25528-02	NA
HHHL	12Gbps	LSI 3108	8i	RAID 0,1,1E,5,6,10,50,60	1GB	PCI-E X8	Gen 3	LSI	MegaRAID-9361-8I	25420-00	IBBU09/ CVFM02+CVPM02
HHHL	6Gbps	LSISAS2008	8e	RAID 0,1,1E,10	NA	PCI-E X8	Gen 2	LSI	LSI-9200-8E	H5-25086-01	NA
HHHL	6Gbps	LSISAS2108	8i	RAID 0,1,5,6,10,50,60	512MB	PCI-E X8	Gen 2	LSI	MEGARAID SAS9260-8I	L3-25121-85	Ibbu08
HHHL	6Gbps	LSISAS2108	8e	RAID 0,1,5,6,10,50,60	512MB	PCI-E X8	Gen 2	LSI	MegaRAID-9280-8E	L5-25152-24	Ibbu08
HHHL	6Gbps	LSISAS2108	4i4e	RAID 0,1,5,6,10,50,60	512MB	PCI-E X8	Gen 2	LSI	MegaRAID-9280-4I4E	L5-25305-05	Ibbu08
HHHL	6Gbps	LSISAS2308	8i	RAID 0,1,1E,10	NA	PCI-E X8	Gen 3	LSI	LSI-9217-8I	25331-01	NA
Mezz	12Gbps	LSI 3108	8i	RAID 0,1,5,10,50	1GB	PCI-E X8	Gen 3	Quanta	QS-3108-R5-PD32	35S2BMA0050	CVFM03/ CVPM02
Mezz	6Gbps	LSISAS2208	8i	RAID 0,1,5,10,50	1GB	PCI-E X8	Gen 3	Quanta	QS-2208-R5-PD32	36S2TRM0030	IBBU09/ CVFM02+CVPM02
Mezz	6Gbps	LSISAS2308	8i	RAID 0,1,1E,10	NA	PCI-E X8	Gen 3	Quanta	QS-2308-IR	35S2TSM0000	NA
Mezz	12Gbps	LSISAS3008	8i	RAID 0,1,1E,10	NA	PCI-E X8	Gen 3	Quanta	QS-3008-8i-IR	35S2BMA0000	NA

LAN card CCL

Form Factor	Speed	Type	Port	Vendor	Model	Chip	Bus	Gen	VendorPN
FHHL	10Gb	RJ45	2 port	Intel	X540-T2	Intel X540	PCI-E X8	Gen 2	X540T2G1P5
HHHL	56Gb	QSFP	2 port	MELLANOX	ConnectX-3 VPI (2)	ConnectX-3 VPI	PCI-E X8	Gen 3	MCX354A-FCBT

Marketing summary report

HHHL	10Gb	SFP+	2 port	Intel	X520-SR2	Intel 82599ES	PCI-E X 8	Gen 2	E10G42BFSR
HHHL	10Gb	SFP+	2 port	MELLANOX	ConnectX-3 EN	MT27518A1-FCCR-XE	PCI-E X 8	Gen 3	MCX312A-XCBT
HHHL	10Gb	SFP+	2 port	Qlogic	QLE8242-CU CAN	NA	PCI-E X 8	Gen 2	QLE8242-CU CAN
HHHL	1Gb	RJ45	4 port	Intel	i350-T4	Intel-I350	PCI-E X 4	Gen 2	I350T4G1P20
NA	10Gb	SFP+	2 port	Intel	X520-DA2	Intel 82599ES	PCI-E X 8	Gen 2	E10G42BTDAG1P5
OCP Mezz	40Gb	QSFP	1 port	Quanta	ON 40GbE CX3PRO	ConnectX-3 Pro VPI	PCI-E X 8	Gen 3	35S2BMA0020
OCP Mezz	40Gb	QSFP	1 port	Quanta	ON 40GbE Skyhawk-R	Skyhawk-R	PCI-E X 8	Gen 3	35S2BMA0010
OCP Mezz	10Gb	RJ45	2 port	Quanta	ON 10GbE X540	Intel X540	PCI-E X 8	Gen 2	37S2SLB0020
OCP Mezz	10Gb	SFP+	2 port	Quanta	ON 10GbE 57810-QCT	BCM57810	PCI-E X 8	Gen 2	3MS2ZLB0030
OCP Mezz	10Gb	SFP+	2 port	Quanta	ON 10GbE 82599ES-QCT	Intel 82599ES	PCI-E X 8	Gen 2	3JF03MA00D0
OCP Mezz	10Gb	SFP+	2 port	Quanta	ON 10GbE CX3PRO	ConnectX-3 Pro EN	PCI-E X 8	Gen 3	3MS2BLB0000
OCP Mezz	10Gb	SFP+	2 port	Quanta	ON 10GbE Skyhawk-R	Skyhawk-R	PCI-E X 8	Gen 3	3MS2BLB0030
OCP Mezz	10Gb	SFP+	1 port	Quanta	ON 10GbE 57811-QCT	BCM57711	PCI-E X 8	Gen 2	3MS2ZLB0000
OCP Mezz	10Gb	SFP+	1 port	Quanta	ON 10GbE 82599EN-QCT	Intel 82599EN	PCI-E X 8	Gen 2	3JF03MA00C0
OCP Mezz	1Gb	RJ45	2 port	Quanta	ON 1GbE I350	Intel-I350	PCI-E X 8	Gen 2	37S2SLB0010

Fiber card CCL

Form Factor	Speed	Port	Vendor	Model	Chip	Bus	Gen	VendorPN
	8Gb	2	Qlogic	QLE2562-CK	EP2532	PCI-E X 8	Gen 2	QLE2562-SP
HHHL	8Gb	2	Qlogic	NA	ISP2532	PCI-E X 4	Gen 2	QLE2562-CK

VGA card CCL

Vendor	Model	Chip	TDP	Gen	Bus	Video_memory	Form Factor	Slot	VendorPN
Intel	XEON PHI 5110P	Knights corner	225W	Gen 2	PCI-E X 16	8G	Full length	Dual Slot	G65758-250
nVidia	GRID K1	GK107	130W	Gen 3	PCI-E X 16	16G	Full length	Dual Slot	900-52401-0020-000
nVidia	GRID K2	GK104	225W	Gen 3	PCI-E X 16	8G	Full length	Dual Slot	900-52055-0020-000
nVidia	K520	GK104	250W	Gen 3	PCI-E X 16	8G	Full length	Dual Slot	900-12055-0020-000
nVidia	TESLA K10	GK104	225W	Gen 3	PCI-E X 16	8G	Full length	Dual Slot	900-22055-0020-000
nVidia	TESLA K20	GK110	225W	Gen 3	PCI-E X 16	5G	Full length	Dual Slot	900-22081-0010-000
nVidia	TESLA K20X	GK110	235W	Gen 2	PCI-E X 16	6GB	Full length	Dual Slot	900-22081-0030-000
nVidia	TESLA K40	GK110B	235W	Gen 3	PCI-E X 16	12GB	Full length	Dual Slot	900-22081-0040-000
				Gen	PCI-E X			Single	699-22004-0200-

nVidia	TESLA K8	GK104	100W	2	16	8G	Full length	Slot	400
nVidia	TESLA K80	GK210	300W	Gen 3	PCI-E X 16	24G	Full length	Dual Slot	TESLA K80

DOM CCL

Size	Vendor	VendorPN
32GB	Techcomp	SD131C-032GM-JM-A
16GB	Techcomp	SD131C-016GM-JM-A
8GB	Techcomp	SD131C-008GM-JM-A

Cache module CCL

Type	Capacity	Generation	Form Factor	Process	NAND Type	Vendor	Product family	VendorPN
PCI-E X4	1.65TB	Gent 2	HHHL PCIe	25nm	MLC	FusionIO	ioScale2	F11-003-1T65-CS-0001
PCI-E X4	365GB	Gent 2	HHHL PCIe	25nm	MLC	FusionIO	ioDrive2	F00-001-365G-CS-0001

SSD CCL

Form Factor	Type	Bandwidth	Capacity	NAND Type	Process	Vendor	Product family	VendorPN
2.5	AHCI	6Gb/s	960GB	MLC	19nm	Samsung	SV843	MZ7WD960HMHP-00003
2.5	AHCI	6Gb/s	960GB	MLC	20nm	Micron	M500	MTFDDAK960MAV-1AE12ABYY
2.5	AHCI	6Gb/s	800GB	MLC	20nm	Intel	S3500	SSDSC2BB800G4
2.5	AHCI	6Gb/s	800GB	MLC	20nm	Intel	S3700	SSDSC2BA800G301
2.5	AHCI	6Gb/s	800GB	MLC	20nm	Micron	M500DC	MTFDDAK800MBB-1AE1ZABYY
2.5	AHCI	6Gb/s	600GB	MLC	20nm	Intel	S3500	SSDSC2BB600G4
2.5	AHCI	6Gb/s	480GB	MLC	20nm	Intel	S3500	SSDSC2BB480G401
2.5	AHCI	6Gb/s	480GB	MLC	20nm	Micron	M500	MTFDDAK480MAV-1AE12ABYY
2.5	AHCI	6Gb/s	480GB	MLC	20nm	Micron	M500DC	MTFDDAK480MBB-1AE1ZABYY
2.5	AHCI	6Gb/s	400GB	MLC	20nm	Intel	S3700	SSDSC2BA400G301
2.5	AHCI	6Gb/s	300GB	MLC	20nm	Intel	S3500	SSDSC2BB300G4
2.5	AHCI	6Gb/s	240GB	MLC	20nm	Intel	S3500	SSDSC2BB240G401
2.5	AHCI	6Gb/s	240GB	MLC	20nm	Micron	M500	MTFDDAK240MAV-1AE12ABYY
2.5	AHCI	6Gb/s	240GB	MLC	20nm	Micron	M500DC	MTFDDAK240MBB-1AE1ZABYY
2.5	AHCI	6Gb/s	200GB	MLC	20nm	Intel	S3700	SSDSC2BA200G3
2.5	AHCI	6Gb/s	160GB	MLC	20nm	Intel	S3500	SSDSC2BB160G4
2.5	AHCI	6Gb/s	120GB	MLC	20nm	Intel	S3500	SSDSC2BB120G401
2.5	AHCI	6Gb/s	120GB	MLC	20nm	Micron	M500	MTFDDAK120MAV-1AE12ABYY
2.5	AHCI	6Gb/s	120GB	MLC	20nm	Micron	M500DC	MTFDDAK120MBB-1AE1ZABYY
2.5	AHCI	6Gb/s	100GB	MLC	20nm	Intel	S3700	SSDSC2BA100G3
2.5	AHCI	6Gb/s	80GB	MLC	20nm	Intel	S3500	SSDSC2BB080G4
2.5	SCSI	12Gb/s	800GB	MLC	25nm	HGST	Sunset Cove	0B28589
2.5	SCSI	12Gb/s	400GB	MLC	25nm	HGST	Sunset Cove	0B28588
2.5	SCSI	12Gb/s	200GB	MLC	25nm	HGST	Sunset Cove	0B28587