Publish date: 2018-04-12

Quanta Cloud Technology

T21SR-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
Microsoft Windows Storage Server 2012, including Hyper-V	(OS Partner Certified:QCT validated all possible hardware configurations with this OS)
Red Hat Enterprise Linux 7.0 X86_64 including KVM	(OS Partner Certified:QCT validated all possible hardware configurations with this OS)
VMware vSphere 6.0	(QCT Support Planned)
VMware vSphere 5.5 (ESXi 5.5u2) Update 2	(QCT Support Planned)
Red Hat Enterprise Linux 7.1 X86_64 including KVM	(QCT Support Planned)
Red Hat Enterprise Linux 7.2 X86_64 including KVM	(QCT Support Planned)

CPU CCL

Model	FSB	QPI Max	Core	Frequency	Watt	QuantaPN	VendorPN	Note
E5-2667 v4	2400	9.6GT/s	8 Core	3.2GHz	135W	AJSR2P58A00	CM8066002041900	
E5-2620 v4	2133	8.0GT/s	8 Core	2.1GHz	85W	AJSR2R6UA00	CM8066002032201	
E5-2609 v4	1866	6.4GT/s	8 Core	1.7GHz	85W	AJSR2P1VA00	CM8066002032901	
E5-2699 v3	2133	9.6GT/s	18 Core	2.3GHz	145W	AJSR1XDUA00	CM8064401739300	
E5-2698 v3	2133	9.6GT/s	16 Core	2.3GHz	135W	AJSR1XEUA00	CM8064401609800	
E5-2697 v3	NA	9.6GT/s	14 Core	2.6GHz	145W	AJSR1XFQA00	CM8064401807100	
E5-2695 v3	2133	9.6GT/s	14 Core	2.3GHz	120W	AJSR1XGUA00	CM8064401438110	
E5-2690 v3	2133	9.6GT/s	12 Core	2.6GHz	135W	AJSR1XNQA00	CM8064401439416	
E5-2683 v3	NA	9.6GT/s	14 Core	2.0GHz	120W	AJSR1XHUA00	CM8064401609728	
E5-2680 v3	2133	9.6GT/s	12 Core	2.5GHz	120W	AJSR1XPRA00	CM8064401439612	
E5-2670 v3	2133	9.6GT/s	12 Core	2.3GHz	120W	AJSR1XSUA00	CM8064401544801	
E5-2667 v3	2133	9.6GT/s	8 Core	3.2GHz	135W	AJSR2038A00	CM8064401724301	
E5-2660 v3	2133	9.6GT/s	10 Core	2.6GHz	105W	AJSR1XRQA00	CM8064401446117	
E5-2650L v3	2133	9.6GT/s	12 Core	1.8GHz	65W	AJSR1Y1UA00	CM8064401575702	
E5-2650 v3	2133	9.6GT/s	10 Core	2.3GHz	105W	AJSR1YAUA00	CM8064401723701	
E5-2643 v3	2133	9.6GT/s	6 Core	3.4GHz	135W	AJSR2048A00	CM8064401724501	
E5-2640 v3	1866	8.0GT/s	8 Core	2.6GHz	90W	AJSR205QA00	CM8064401830901	
E5-2637 v3	2133	9.6GT/s	Quad	3.5GHz	135W	AJSR2028A00	CM8064401724101	
E5-2630L v3	1866	8.0GT/s	8 Core	1.8GHz	55W	AJSR209UA00	CM8064401832100	
E5-2630 v3	1866	8.0GT/s	8 Core	2.4GHz	85W	AJSR206UA00	CM8064401831000	
E5-2623 v3	1866	8.0GT/s	Quad	3.0GHz	105W	AJSR2088A00	CM8064401832000	
E5-2620 v3	1866	8.0GT/s	6 Core	2.4GHz	85W	AJSR207UA00	CM8064401831400	
E5-2609 v3	1600	6.4GT/s	6 Core	1.9GHz	85W	AJSR1YCUA00	CM8064401850800	
E5-2603 v3	1866	6.4GT/s	6 Core	1.6GHz	85W	AJSR20AVA00	CM8064401844200	

*Grayed-out items: to be EOL soon or already EOL

Memory CCL

SDRAM Type	Frequency	Size	DIMM Type	Vendor	QuantaPN	VendorPN	Note
DDR4_LR	19200(2400MHz)	64GB	Register	SK Hynix	ATR5^AGLW02	HMAA8GL7AMR4N-UH	
DDR4	19200(2400MHz)	32GB	Register	Samsung	ATR3XAGR503	M393A4K40BB1-CRC	
DDR4	19200(2400MHz)	16GB	Register	Samsung	ATR3GAGR507	M393A2K40BB1-CRC	
DDR4	17000(2133MHz)	32GB	Register	Samsung	ATR3XAGR505	M393A4K40BB0-CPB	
DDR4	17000(2133MHz)	16GB	Register	Samsung	ATR3GAGM538	M393A2K40BB0-CPB	
DDR4_LR	17000(2133MHz)	32GB	Register	Micron	ATR3XAGML04	MTA72ASS4G72LZ-2G1A1	
DDR4_LR	17000(2133MHz)	32GB	Register	Samsung	ATR3XAGL500	M386A4G40DM0-CPB	
DDR4_LR	17000(2133MHz)	32GB	Register	SK Hynix	ATR3XAGMW02	HMA84GL7MMR4N-TF	
DDR4	17000(2133MHz)	16GB	Register	Micron	ATR3GAGML18	MTA36ASF2G72PZ-2G1A2	
DDR4	17000(2133MHz)	16GB	Register	Samsung	ATR3GAGM513	M393A2G40DB0-CPB	
DDR4	17000(2133MHz)	16GB	Register	SK Hynix	ATR3GAGMW08	HMA42GR7MFR4N-TF	
DDR4	17000(2133MHz)	8GB	Register	Micron	ATR38AGML26	MTA18ASF1G72PZ-2G1A2	
DDR4	17000(2133MHz)	8GB	Register	Samsung	ATR38AGM534	M393A1G40DB0-CPB	
DDR4	17000(2133MHz)	8GB	Register	SK Hynix	ATR38AGMW34	HMA41GR7MFR4N-TF	
DDR4	17000(2133MHz)	4GB	Register	Micron	ATR34AGML08	MTA9ASF51272PZ-2G1A1	
DDR4	17000(2133MHz)	4GB	Register	SK Hynix	ATR34AGMW17	HMA451R7MFR8N-TF	

*Grayed-out items: to be EOL soon or already EOL

HDD CCL

Form Factor	Interface	Bandwidth	Capacity	Rpm	Vendor	Product family	Model	QuantaPN	VendorPN	Note
2.5	SASIII	12 Gb/s	2TB	7.2 Krpm	Seagate	Avenger	ST2000NX0273	AB2000NX001	1FM201-002	
2.5	SASIII	12 Gb/s	1.8TB	10 Krpm	HGST	Cobra F	HUC101818CS4200	AB101818000	0B27978	
2.5	SASIII	12 Gb/s	1.2TB	10 Krpm	HGST	Cobra F	HUC101812CSS200	AB101812001	0B28807	
2.5	SASIII	12 Gb/s	900GB	10 Krpm	HGST	Cobra F	HUC101890CS4200	AB101890000	0B27975	
2.5	SASIII	12 Gb/s	600GB	15 Krpm	HGST	KingCobra-F	HUC156060CSS200	AB156060000	0B28953	
2.5	SASIII	12 Gb/s	600GB	10 Krpm	HGST	Cobra F	HUC101860CS4200	AB101860003	0B27974	
2.5	SASIII	12 Gb/s	450GB	15 Krpm	HGST	KingCobra-F	HUC156045CSS200	AB156045000	0B28954	
2.5	SASIII	12 Gb/s	300GB	10 Krpm	HGST	Cobra F	HUC101830CSS200	AB101830000	0B28810	
3.5	SASII	6 Gb/s	6TB	7.2 Krpm	HGST	Aries-HC6	HUS726060ALS640	AB726060001	0F18370	
3.5	SASII	6 Gb/s	4TB	7.2 Krpm	HGST	Mars-KP	HUS724040ALS640	AB724040004	0B26885	
3.5	SASII	6 Gb/s	3TB	7.2 Krpm	HGST	Mars-KP	HUS724030ALS640	AB724030002	0B26886	
3.5	SASII	6 Gb/s	2TB	7.2 Krpm	HGST	Mars-KP	HUS724020ALS640	AB724020006	0B26887	
3.5	SASIII	12 Gb/s	8TB	7.2 Krpm	HGST	Aries He8	HUH728080AL5200	AB728080004	0F23268	
3.5	SASIII	12 Gb/s	6TB	7.2 Krpm	HGST	Aries He8	HUH728060AL5200	AB728060001	0F23270	
3.5	SASIII	12 Gb/s	6TB	7.2 Krpm	Seagate	Makara	ST6000NM0034	AB6000NM002	1HT27Z-001	
3.5	SASIII	12 Gb/s	4TB	7.2 Krpm	Seagate	Makara	ST4000NM0034	AB4000NM011	1HT278-001	
3.5	SASIII	12 Gb/s	2TB	7.2 Krpm	Seagate	Makara	ST2000NM0034	AB2000NM021	1HT274-001	

2.5	SASII	6 Gb/s	900GB	10 Krpm	HGST	Cobra-E	HUC109090CSS600	AB109090000	0B26014
2.5	SASII	6 Gb/s	600GB	10 Krpm	Toshiba	AL13SE	AL13SEB600	AB000600002	HDEBC01GEA51
2.5	SASIII	12 Gb/s	1.8TB	10 Krpm	Seagate	Thunderbolt	ST1800MM0158	AB1800MM000	1RV221-002
2.5	SASIII	12 Gb/s	1.2TB	10 Krpm	Seagate	Thunderbolt	ST1200MM0018	AB1200MM001	1FF201-002
2.5	SASIII	12 Gb/s	600GB	10 Krpm	Seagate	Thunderbolt	ST600MM0018	AB000600006	1FD201-002
2.5	SASIII	12 Gb/s	300GB	15 Krpm	HGST	KingCobra-F	HUC156030CSS200	AB156030002	0B28955
2.5	SATAIII	6 Gb/s	250GB	7.2 Krpm	Seagate	Airwalker	ST9250610NS	AB250610001	9RZ162-003

*Grayed-out items: to be EOL soon or already EOL

Storage Card CCL

Form Factor	Bandwidth	Chip	Port	RAID	Onboard memory	Bus	Gen	Vendor	Model	QuantaPN	BBU SuperCap
HHHL	12Gbps	LSISAS3008	8i	JBOD	NA	PCI-E X 8	Gen 3	Broadcom	LSI SAS9300-8I	ADPC2557000	NA
HHHL	12Gbps	3108	8i	RAID 0,1,5,10,50,60	1GB	PCI-E X 8	Gen 3	Broadcom	Syncro 9361-8i	3WS2SRCST00	IBBU09/ CVFM02+CVPM02

*Grayed-out items: to be EOL soon or already EOL

LAN Card CCL

Form Factor	Speed	Type	Port	Vendor	Model	Chip	Bus	Gen	QuantaPN	VendorPN	Note
HHHL	10Gb	RJ45	2 port	Intel	X540-T2	Intel X540	PCI-E X 8	Gen 2	ADPC0540000	X540T2G1P5	
HHHL	10Gb	SFP+	2 port	Intel	X520-DA2	Intel 82599ES	PCI-E X 8	Gen 2	ADPC0042000	E10G42BTDAG1P5	
HHHL	1Gb	RJ45	4 port	Intel	i350-T4 (2)	Intel I350	PCI-E X 4	Gen 2	ADPC0350001	I350T4G2P20	
HHHL	1Gb	RJ45	2 port	Intel	I350-T2 v2	Intel I350	PCI-E X 4	Gen 2	ADPC0350002	I350T2G2P20	
OCP Mezz	10Gb	SFP+	2 port	Quanta	ON 10GbE 82599ES-QCT	Intel 82599ES	PCI-E X 8	Gen 2	3JF03MA00D0	3JF03MA00D0	
HHHL	1Gb	RJ45	4 port	Intel	i350-T4	Intel I350	PCI-E X 4	Gen 2	ADPCI350000	I350T4G1P20	
HHHL	1Gb	RJ45	2 port	Intel	I350-T2	Intel I350	PCI-E X 8	Gen 2	ADPCI350001	I350T2	

*Grayed-out items: to be EOL soon or already EOL

DOM CCL

Size	Vendor	QuantaPN	VendorPN	Note
16GB	INNODISK	ADF016GD003	DESSV-16GD07SW1SC-A91	

*Grayed-out items: to be EOL soon or already EOL

**SATADOM is best designed for read-intensive applications, such as boot image storage.

Given its small capacity in general, using SATADOM for write-intensive applications, such as caching or as virtual memory (e.g., pagefile or swap partition), may result in high DWPD (Disk Write per Day). That may seriously shorten the life cycle of your SATADOM.
Check the FAQ on our website to learn more about how to set up virtual memory on your systems.

PSU CCL

Power Capacity	Type	Efficiency	Dimension(mm)	240VDC	Cold redundancy	QuantaPN	VendorPN	Note
1600W	Redundant	Platinum	86*196*40	No	No	AFG00F00010	R12-1K6P2A	
1200W	Redundant	Platinum	86*196*40	No	No	AFC00B00024	PS-2112-5Q2-LF REV:03	
1200W	Redundant	Platinum	86*196*40	No	No	AFC00B00013	PS-2112-5Q2-LF REV:04	

*Grayed-out items: to be EOL soon or already EOL

SSD CCL

Form Factor	Type	Bandwidth	Capacity	NAND Type	Process	Vendor	Product family	QuantaPN	VendorPN	Note
2.5 - 7mm	SATAIII	6Gb/s	1.6TB	eMLC	16nm	Intel	S3510	ABS016T6000	NA	
2.5 - 7mm	SATAIII	6Gb/s	1.2TB	eMLC	16nm	Intel	S3510	ABS012T6001	NA	
2.5 - 7mm	SATAIII	6Gb/s	1.2TB	MLC HET	20nm	Intel	S3610	ABS012T4004	NA	
2.5 - 7mm	SATAIII	6Gb/s	960GB	MLC	16nm	Micron	M510DC	ABSAK960001	MTFDDAK960MBP-1AN1ZABYY	
2.5 - 7mm	SATAIII	6Gb/s	800GB	eMLC	16nm	Intel	S3510	ABS00800011	NA	
2.5 - 7mm	SATAIII	6Gb/s	800GB	MLC	20nm	Intel	S3500	ABS00800005	NA	
2.5 - 7mm	SATAIII	6Gb/s	800GB	MLC HET	20nm	Intel	S3610	ABS0800G003	NA	
2.5 - 7mm	SATAIII	6Gb/s	800GB	MLC HET	20nm	Intel	S3710	ABS0800G001	NA	
2.5 - 7mm	SATAIII	6Gb/s	480GB	eMLC	16nm	Intel	S3510	ABS0480G004	NA	
2.5 - 7mm	SATAIII	6Gb/s	480GB	MLC HET	20nm	Intel	S3610	ABS0480G002	NA	
2.5 - 7mm	SATAIII	6Gb/s	400GB	MLC HET	20nm	Intel	S3610	ABS0400G004	NA	
2.5 - 7mm	SATAIII	6Gb/s	400GB	MLC HET	20nm	Intel	S3710	ABS0400G002	NA	
2.5 - 7mm	SATAIII	6Gb/s	240GB	eMLC	16nm	Intel	S3510	ABS0240G003	NA	
2.5 - 7mm	SATAIII	6Gb/s	200GB	MLC HET	20nm	Intel	S3610	ABS0200G007	NA	
2.5 - 7mm	SATAIII	6Gb/s	200GB	MLC HET	20nm	Intel	S3710	ABS0200G005	NA	
2.5 - 7mm	SATAIII	6Gb/s	120GB	eMLC	16nm	Intel	S3510	ABS0120G017	NA	
2.5 - 7mm	SATAIII	6Gb/s	80GB	eMLC	16nm	Intel	S3510	ABS0080G033	NA	
145004002	SASIII	12Gb/s	400GB	MLC	20nm	HGST	SunsetCove Plus	ABS1640A000	0B31066	
145004002	SASIII	12Gb/s	200GB	MLC	20nm	HGST	SunsetCove Plus	ABS1620A000	0B31065	
145004002	SATAIII	6Gb/s	1.6TB	MLC HET	20nm	Intel	S3610	ABS016T4000	SSDSC2BX016T4	
145004002	SATAIII	6Gb/s	1.2TB	MLC HET	20nm	Intel	S3710	ABS012T4002	SSDSC2BA012T4	

*Grayed-out items: to be EOL soon or already EOL