

## Quanta Cloud Technology

### S31A-1U

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 Server 2016 , including Hyper-V	(OS Partner Certified:QCT validated all possible hardware configurations with this OS)
Microsoft Windows Server 2012, including Hyper-V	(QCT Tested: Either OS or hypervisor successfully installed)
Microsoft Windows Server 2012 R2, including Hyper-V	(OS Partner Certified:QCT validated all possible hardware configurations with this OS)
Microsoft Windows Server 2008 R2 X86_64, with SP1, Enterprise Edition , including Hyper-V	(QCT Tested: Either OS or hypervisor successfully installed)
Red Hat Enterprise Linux 7.1 X86_64 including KVM	(OS Partner Certified:QCT validated all possible hardware configurations with this OS)
Ubuntu Server 14.04.2(LTS)	(QCT Tested: Either OS or hypervisor successfully installed)
Ubuntu Server 16.04 (LTS)	(QCT Support Planned)
VMware vSphere 6.5 (ESXi 6.5)	(QCT Support Planned)
Red Hat Enterprise Linux 7.3 X86_64 including KVM (for Purley project)	(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
E3-1280 v6	2400	NA	Quad	3.9GHz	72W	AJSR3258A00	CM8067702870647	
E3-1270 v6	2400	NA	Quad	3.8GHz	72W	AJSR3268A00	CM8067702870648	
E3-1240 v6	2400	NA	Quad	3.7GHz	72W	AJSR3278A00	CM8067702870649	
E3-1230 v6	2400	NA	Quad	3.5GHz	72W	AJSR3288A00	CM8067702870650	
E3-1220 v6	2400	NA	Quad	3.0GHz	72W	AJSR3298A00	CM8067702870812	
E3-1280 v5	NA	NA	Quad	3.7GHz	80W	AJSR2LC8A00	CM8066201921607	
E3-1270 v5	2133	NA	Quad	3.6GHz	80W	AJSR2LF8A00	CM8066201921712	
E3-1260L v5	2133	NA	Quad	2.9GHz	45W	AJSR2LH8A00	CM8066201921903	
E3-1240 v5	NA	NA	Quad	3.5GHz	80W	AJSR2LD8A00	CM8066201921715S	
E3-1230 v5	2133	NA	Quad	3.4GHz	80W	AJSR2LE8A00	CM8066201921713	
E3-1220 v5	NA	NA	Quad	3.0GHz	80W	AJSR2LG8A00	CM8066201921804S	

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

#### Memory CCL

SDRAM Type	Frequency	Size	DIMM Type	Vendor	QuantaPN	VendorPN	Note
DDR4	19200(2400MHz)	16GB	UB-ECC	Micron	ATR5GAGML01	MTA18ASF2G72AZ-2G3B1ZG	
DDR4	19200(2400MHz)	16GB	UB-ECC	Samsung	ATR5GAGM500	M391A2K43BB1-CRC	
DDR4	19200(2400MHz)	8GB	UB-ECC	Micron	ATR38AGML55	MTA9ASF1G72AZ-2G3B1ZG	
DDR4	17000(2133MHz)	16GB	UB-ECC	Samsung	ATR5GAGM501	M391A2K43BB1-CPB	
DDR4	17000(2133MHz)	8GB	UB-ECC	Samsung	ATR58AGM501	M391A1G43DB0-CPB	
DDR4	17000(2133MHz)	8GB	UB-ECC	SK Hynix	ATR38GGMW01	HMA41GU7AFR8N-TF	

DDR4 17000(2133MHz) 4GB UB-ECC SK Hynix ATR34GGMW01 HMA451U7AFR8N-TF

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**HDD CCL**

Form Factor	Interface	Bandwidth	Capacity	Rpm	Vendor	Product family	Model	QuantaPN	VendorPN	Note
3.5	SATAIII	6 Gb/s	6TB	7.2 Krpm	HGST	Aries-KP	HUS726060ALE610	AB726060002	0F23001	
3.5	SATAIII	6 Gb/s	6TB	7.2 Krpm	Toshiba	Tomcat-R	HDEPS10GEA51	AB00600E001	MG04ACA600E	
3.5	SATAIII	6 Gb/s	5TB	7.2 Krpm	HGST	Aries-KP	HUS726050ALE610	AB726050002	0F23003	
3.5	SATAIII	6 Gb/s	3TB	7.2 Krpm	Toshiba	Tomcat	MG04ACA300	AB000300002	HDEPR12GEA51	
3.5	SATAIII	6 Gb/s	2TB	7.2 Krpm	HGST	Aries-KP	HUS726020ALE610	AB726020001	0F23009	
3.5	SASII	6 Gb/s	4TB	7.2 Krpm	Seagate	Megalodon	ST4000NM0023	AB4000NM009	9ZM270-004	
3.5	SASII	6 Gb/s	3TB	7.2 Krpm	Seagate	Megalodon	ST3000NM0023	AB3000NM004	9ZM278-004	
3.5	SASII	6 Gb/s	2TB	7.2 Krpm	Seagate	Megalodon	ST2000NM0023	AB2000NM013	9ZM275-004	
3.5	SASII	6 Gb/s	1TB	7.2 Krpm	Seagate	Megalodon	ST1000NM0023	AB1000NM016	9ZM273-004	
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	
3.5	SATAIII	6 Gb/s	6TB	7.2 Krpm	Seagate	Makara	ST6000NM0024	AB6000NM000	1HT17Z-001	
3.5	SATAIII	6 Gb/s	5TB	7.2 Krpm	Seagate	Makara	ST5000NM0024	AB5000NM000	1HT170-500	
3.5	SATAIII	6 Gb/s	4TB	7.2 Krpm	Seagate	Makara	ST4000NM0024	AB4000NM010	1HT178-001	
3.5	SATAIII	6 Gb/s	4TB	7.2 Krpm	Seagate	Megalodon	ST4000NM0033	AB4000NM008	9ZM170-005	
3.5	SATAIII	6 Gb/s	3TB	7.2 Krpm	Seagate	Megalodon	ST3000NM0033	AB3000NM007	9ZM178-005	
3.5	SATAIII	6 Gb/s	2TB	7.2 Krpm	Seagate	Makara	ST2000NM0024	AB2000NM020	1HT174-001	
3.5	SATAIII	6 Gb/s	2TB	7.2 Krpm	Seagate	Makara	ST2000NM0024	AB2000NM020	1HT174-001	
3.5	SATAIII	6 Gb/s	2TB	7.2 Krpm	Seagate	Megalodon	ST2000NM0033	AB2000NM018	9ZM175-005	
3.5	SATAIII	6 Gb/s	1TB	7.2 Krpm	Seagate	Megalodon	ST1000NM0033	AB1000NM015	9ZM173-005	
2.5	SASIII	12 Gb/s	1.8TB	10 Krpm	Seagate	Thunderbolt	ST1800MM0018	AB1800MM001	1GR201-002	
2.5	SASIII	12 Gb/s	1.2TB	10 Krpm	Seagate	Thunderbolt	ST1200MM0018	AB1200MM001	1FF201-002	
2.5	SASIII	12 Gb/s	900GB	10 Krpm	Seagate	Thunderbolt	ST900MM0018	AB000900003	1FE201-002	
2.5	SASIII	12 Gb/s	600GB	10 Krpm	Seagate	Thunderbolt	ST600MM0018	AB000600006	1FD201-002	

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

**Storage Card CCL**

Form Bandwidth Chip Port RAID Onboard Bus Gen Vendor Model QuantaPN BBU SuperCap

## Marketing summary report

Factor	memory										
HHHL	12Gbps	LSISAS3008	8e	JBOD	NA	PCI-E X 8	Gen 3	Broadcom	LSI SAS9300-8E	ADPC2546000	NA
HHHL	12Gbps	LSISAS3108	8e	RAID 0,1,5,6,10,50,60	1GB	PCI-E X 8	Gen 3	Broadcom	MegaRAID SAS9380-8E	AD002552001	NA
Mezz	12Gbps	LSI3108	8i	RAID 0,1,5,10,50	1GB	PCI-E X 8	Gen 3	Quanta	QS-3108-R5-PD32	35S2BMA0050	CVFM03/CVPM
Mezz	12Gbps	LSISAS3008	8e	RAID 0,1,1E,10	NA	PCI-E X 8	Gen 3	Quanta	QS-3008-8e-IR	35S2BMA00A0	NA
Mezz	12Gbps	LSISAS3008	4i4e	RAID 0,1,1E,10	NA	PCI-E X 8	Gen 3	Quanta	QS-3008-4i4e-IR	35S2BMA00B0	NA
Mezz	12Gbps	LSISAS3108	8i	RAID 0,1,5,6,10,50,60	1GB	PCI-E X 8	Gen 3	Quanta	QS-3108-R6-PD32	35S2BMA0060	CVFM03/CVPM

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## LAN Card CCL

Form Factor	Speed	Type	Port	Vendor	Model	Chip	Bus	Gen	QuantaPN	VendorPN	Note
HHHL	1Gb	RJ45	4 port	Intel	i350-T4 v2	Intel I350	PCI-E X 4	Gen 2	ADPC0350001	I350T4G2P20	
Mezz	40Gb	QSFP	1 port	Quanta	ON 40GbE CX3PRO EN	ConnectX-3 Pro EN	PCI-E X 8	Gen 3	35S2BMA0090	35S2BMA0090	
OCP Mezz	10Gb	RJ45	2 port	Quanta	ON 10GbE X540	Intel X540	PCI-E X 8	Gen 2	37S2SLB0020	37S2SLB0020	
OCP Mezz	10Gb	SFP+	2 port	Quanta	ON 10GbE 82599ES-QCT	Intel 82599ES	PCI-E X 8	Gen 2	3JF03MA00D0	3JF03MA00D0	
OCP Mezz	10Gb	SFP+	2 port	Quanta	ON 10GbE CX3PRO	ConnectX-3 Pro EN	PCI-E X 8	Gen 3	3MS2BLB0000	3MS2BLB0000	
OCP Mezz	10Gb	SFP+	2 port	Quanta	ON 10GbE Skyhawk-R	Skyhawk-R	PCI-E X 8	Gen 3	3MS2BLB0030	3MS2BLB0030	
OCP Mezz	10Gb	SFP+	1 port	Quanta	ON 10GbE 82599EN-QCT	Intel 82599EN	PCI-E X 8	Gen 2	3JF03MA00C0	3JF03MA00C0	
OCP Mezz	1Gb	RJ45	2 port	Quanta	ON 1GbE I350	Intel I350	PCI-E X 8	Gen 2	37S2SLB0010	37S2SLB0010	

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## PSU CCL

Power Capacity	Type	Efficiency	Dimension(mm)	240VDC	Cold redundancy	QuantaPN	VendorPN	Note
700W	Redundant	Platinum	54.5*220*40	Yes	Yes	AF700B00003	YM-2701QBR REV:B01	
500W	Multiple	90+	81.5*150*40	No	No	AF500B00037	S14-500P1AA rev:01	
400W	Redundant	Platinum	54.5*220*40	Yes	Yes	AF400B00019	FSE028-930G REV:03	

\*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	3.84TB	VNAND	NA	Samsung	PM863a	ABS3T8HM002	MZ7LM3T8HMLP-00005	
2.5 - 7mm	SATAIII	6Gb/s	1.92TB	MLC	20nm	Samsung	SM863a	ABS1T9HM003	MZ7KM1T9HMJP-00005	
2.5 - 7mm	SATAIII	6Gb/s	1.92TB	VNAND	NA	Samsung	PM863a	ABS1T9HM001	MZ7LM1T9HMJP-00005	
2.5 - 7mm	SATAIII	6Gb/s	960GB	MLC	20nm	Samsung	SM863a	ABS960HM012	MZ7KM960HMJP-00005	
2.5 - 7mm	SATAIII	6Gb/s	960GB	VNAND	NA	Samsung	PM863a	ABS960HM010	MZ7LM960HMJP-00005	
2.5 - 7mm	SATAIII	6Gb/s	480GB	MLC	20nm	Samsung	SM863a	ABS480HM006	MZ7KM480HMHQ-00005	
2.5 - 7mm	SATAIII	6Gb/s	480GB	VNAND	NA	Samsung	PM863a	ABS480HM004	MZ7LM480HMHQ-00005	
2.5 - 7mm	SATAIII	6Gb/s	240GB	MLC	20nm	Samsung	SM863a	ABS240HM005	MZ7KM240HMHQ-00005	
2.5 - 7mm	SATAIII	6Gb/s	240GB	VNAND	NA	Samsung	PM863a	ABS240HM004	MZ7LM240HMHQ-00005	
Daughter card	SATAIII	6Gb/s	960GB	MLC	3D NAND	Intel	S3520	ABS960G7010	NA	
2.5 - 7mm	SATAIII	6Gb/s	1.6TB	MLC	3D NAND MLC	Intel	S3520	ABS016T7000	SSDSC2BB016T701	
2.5 - 7mm	SATAIII	6Gb/s	800GB	MLC	20nm	Intel	S3500	ABS00800005	NA	
2.5 - 7mm	SATAIII	6Gb/s	800GB	MLC	20nm	Intel	S3700	ABS00800007	NA	
2.5 - 7mm	SATAIII	6Gb/s	600GB	MLC	20nm	Intel	S3500	ABS00600000	NA	
2.5 - 7mm	SATAIII	6Gb/s	480GB	MLC	20nm	Intel	S3500	ABS00480000	NA	
2.5 - 7mm	SATAIII	6Gb/s	400GB	MLC	20nm	Intel	S3700	ABS0400G000	NA	
2.5 - 7mm	SATAIII	6Gb/s	300GB	MLC	20nm	Intel	S3500	ABS0300G014	NA	
2.5 - 7mm	SATAIII	6Gb/s	240GB	MLC	20nm	Intel	S3500	ABS00240003	NA	
2.5 - 7mm	SATAIII	6Gb/s	200GB	MLC	20nm	Intel	S3700	ABS0200G002	NA	
2.5 - 7mm	SATAIII	6Gb/s	160GB	MLC	20nm	Intel	S3500	ABS00160001	NA	
2.5 - 7mm	SATAIII	6Gb/s	120GB	MLC	20nm	Intel	S3500	ABS00120004	NA	
2.5 - 7mm	SATAIII	6Gb/s	120GB	MLC	20nm	Micron	M500DC	ABSAK120000	MTFDDAK120MBB-1AE1ZABYY	
2.5 - 7mm	SATAIII	6Gb/s	100GB	MLC	20nm	Intel	S3700	ABS0100G002	NA	
2.5 - 7mm	SATAIII	6Gb/s	80GB	MLC	20nm	Intel	S3500	ABS0080G031	NA	
145004002	SATAI	6Gb/s	800GB	MLC	20nm	Micron	M500DC	ABSAK800000	MTFDDAK800MBB-1AE1ZABYY	
145004002	SATAIII	6Gb/s	480GB	MLC	20nm	Micron	M500DC	ABSAK480001	MTFDDAK480MBB-1AE1ZABYY	
145004002	SATAIII	6Gb/s	240GB	MLC	20nm	Micron	M500DC	ABSAK240001	MTFDDAK240MBB-1AE1ZABYY	

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

### TPM CCL

Model	QuantaPN	VendorPN	Note
NA	34S55TB0030	34S55TB0030	
NA	3PS2BTB0000	3PS2BTB0000	

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