

Quanta Cloud Technology

D52Y-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
Red Hat Enterprise Linux 7.6 x86_64 including KVM	(QCT Supported)
VMware vSphere 6.7	(QCT Supported)
Microsoft Windows Server 2019 x86_64 including Hyper-V	(QCT Supported)
Ubuntu Server 18.04.2 LTS	(QCT Supported)
VMware vSphere 7.0	(QCT Support Planned)

CPU CCL

Model	FSB	QPI Max	Core	Frequency	Watt	QuantaPN	VendorPN	Note
8280L	2933	10.4GT/s	28 Core	2.7GHz	205W	AJSRF9RSA00	CD8069504228201	
8280	2933	10.4GT/s	28 Core	2.7GHz	205W	AJSRF9PSA00	CD8069504228001	
8276L	2933	10.4GT/s	28 Core	2.2GHz	165W	AJSRF97UA00	CD8069504195301	
8276	2933	10.4GT/s	28 Core	2.2GHz	165W	AJSRF99UA00	CD8069504195501	
8270	2933	10.4GT/s	26 Core	2.7GHz	205W	AJSRF96SA00	CD8069504195201	
8268	2933	10.4GT/s	24 Core	2.9GHz	205W	AJSRF958A00	CD8069504195101	
8260L	2933	10.4GT/s	24 Core	2.4GHz	165W	AJSRF9GUA00	CD806950420100	
8260	2933	10.4GT/s	24 Core	2.4GHz	165W	AJSRF9HUA00	CD8069504201101	
8256	2933	10.4GT/s	Quad	3.8GHz	105W	AJSRF948A00	CD8069504194701	
8253	2933	10.4GT/s	16 Core	2.2GHz	125W	AJSRF93UA00	CD8069504194601	
6254	2933	10.4GT/s	18 Core	3.1GHz	200W	AJSRF928A00	CD8069504194501	
6252	2933	10.4GT/s	24 Core	2.1GHz	150W	AJSRF91UA00	CD8069504194401	
6248	2933	10.4GT/s	20 Core	2.5GHz	150W	AJSRF90RA00	CD8069504194301	
6244	2933	10.4GT/s	8 Core	3.6GHz	150W	AJSRF8Z8A00	CD8069504194202	
6242	2933	10.4GT/s	16 Core	2.8GHz	150W	AJSRF8Y8A00	CD8069504194101	
6240	2933	10.4GT/s	18 Core	2.6GHz	150W	AJSRF8XQA00	CD8069504194001	
6238T	2933	10.4GT/s	22 Core	1.9GHz	125W	AJSRF9CUA00	CD8069504200401	
6230	2933	10.4GT/s	20 Core	2.1GHz	125W	AJSRF8WUA00	CD8069504193701	
5220	2666	10.4GT/s	18 Core	2.2GHz	125W	AJSRFBJUA00	CD8069504214601	
5218N	2666	10.4GT/s	16 Core	2.3GHz	105W	AJSRFD9UA00	CD8069504289900	
5218	2666	10.4GT/s	16 Core	2.3GHz	125W	AJSRFDJUA00	CD8069504295701	
5218	2666	10.4GT/s	16 Core	2.3GHz	125W	AJSRF8TUA00	CD8069504193301	
5217	2666	10.4GT/s	8 Core	3.0GHz	115W	AJSRFBF8A00	CD8069504214302	
5215M	2666	10.4GT/s	10 Core	2.5GHz	85W	AJSRFBDRUA00	CD8069504214102	
5215L	2666	10.4GT/s	10 Core	2.5GHz	85W	AJSRFBERA00	CD8069504214202	
5215	2666	10.4GT/s	10 Core	2.5GHz	85W	AJSRFB CRA00	CD8069504214002	

4216	2400	9.6GT/s	16 Core	2.1GHz	100W	AJSRFBBUA00	CD8069504213901
4215	2400	9.6GT/s	8 Core	2.5GHz	85W	AJSRFBARA00	CD8069504212701
4214	2400	9.6GT/s	12 Core	2.2GHz	85W	AJSRFB9UA00	CD8069504212601
4210	2400	9.6GT/s	10 Core	2.2GHz	85W	AJSRFB LUA00	CD8069503956302
4209T	2400	9.6GT/s	8 Core	2.2GHz	70W	AJSRFBQUA00	CD8069503956900
4208	2400	9.6GT/s	8 Core	2.1GHz	85W	AJSRFBMUA00	CD8069503956401
3204	2133	9.6GT/s	6 Core	1.9GHz	85W	AJSRFBPUA00	CD8069503956700
8280M	2933	10.4GT/s	28 Core	2.7GHz	205W	AJSRF9QSA00	CD8069504228101
8276M	2933	10.4GT/s	28 Core	2.2GHz	165W	AJSRF98UA00	CD8069504195401
8260M	2933	10.4GT/s	24 Core	2.4GHz	165W	AJSRF9JUA00	CD8069504201201

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

Memory CCL

SDRAM Type	Frequency	Size	DIMM Type	Vendor	QuantaPN	VendorPN	Note
DDR4_LR	23400(2933MHz)	64GB	Register	Samsung	ATR5ZAGL505	M386A8K40CM2-CVF	
DDR4_LR	19200(2400MHz)	32GB	Register	Samsung	ATR5XAGL500	M386A4K40BB0-CRC	
DDR4	23400(2933MHz)	32GB	Register	Micron	ATR5XAGRL15	MTA36ASF4G72PZ-2G9E2VG	
DDR4	23400(2933MHz)	32GB	Register	Samsung	ATR5XAGR516	M393A4K40CB2-CVFCQ	
DDR4	23400(2933MHz)	32GB	Register	SK Hynix	ATR5XAGRW18	HMA84GR7CJR4N-WM	
DDR4	23400(2933MHz)	16GB	Register	Micron	ATR5GAGRL14	MTA18ASF2G72PZ-2G9E1	
DDR4	23400(2933MHz)	16GB	Register	Micron	ATR5GAGRL13	MTA18ASF2G72PDZ-2G9E1	
DDR4	23400(2933MHz)	16GB	Register	Samsung	ATR5GAGR515	M393A2K43CB2-CVFCQ	
DDR4	23400(2933MHz)	16GB	Register	Samsung	ATR5GAGR516	M393A2K40CB2-CVFCQ	
DDR4	23400(2933MHz)	16GB	Register	SK Hynix	ATR3GAGRW22	HMA82GR7CJR4N-WM	
DDR4	21300(2666MHz)	32GB	Register	SK Hynix	ATR5XAGRW21	HMA84GR7CJR4N-VK	
DDR4	21300(2666MHz)	16GB	Register	Micron	ATR5GAGRL07	MTA18ASF2G72PZ-2G6D1QK	

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*Maximum memory frequency running on the platform, please refer to CPU FSB and supported memory population

HDD CCL

Form Factor	Interface	Bandwidth	Capacity	Rpm	Vendor	Product family	Model	QuantaPN	VendorPN	Note
2.5	SASIII	12 Gb/s	2.4TB	10 Krpm	Seagate	Skybolt	ST2400MM0129	AB2400MM001	1XK203-003	
2.5	SASIII	12 Gb/s	2.4TB	10 Krpm	Toshiba	AL15SE	AL15SEB24EQ	AB0024EQ001	HDEBL10GEA51	
2.5	SATAIII	6 Gb/s	1TB	7.2 Krpm	Seagate	Avenger	ST1000NX0313	AB1000NX006	1FN101-005	

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Storage Card CCL

Form Factor	Bandwidth	Chip	Port	RAID	Onboard memory	Bus	Gen	Vendor	Model	QuantaPN	BBU SuperCap
HHHL	12Gbps	LSISAS3008	8e	JBOD	NA	PCI-EX 8	Gen 3	Broadcom	LSI SAS9300-8E	ADPC2546000	NA
HHHL	12Gbps	LSISAS3108	8e	RAID 0,1,5,6,10,50,60	1GB	PCI-EX 8	Gen 3	Broadcom	MegaRAID SAS9380-8E	AD002552001	CVFM04/CVPM02

NA	NA	NA	NA	RAID 0,1,10	NA	NA	NA	Intel	VROC Key	AD00VROC000	NA
NA	NA	NA	NA	RAID 0,1,5,10	NA	NA	NA	Intel	VROC R5 Key	AD00VROC001	NA

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LAN Card CCL

Form Factor	Speed	Type	Port	Vendor	Model	Chip	Bus	Gen	QuantaPN	VendorPN	Note
HHHL	100Gb	QSFP28	2 port	MELLANOX	CX516A	ConnectX-5 EN	PCI-E X16	Gen 3	ADPC0516000	MCX516A-CCAT	
HHHL	25Gb	SFP28	2 port	Broadcom	P225p	BCM 57414	PCI-E X8	Gen 3	ADPC9574003	BCM957414A4142CC	
HHHL	25Gb	SFP28	2 port	Intel	XXV710-DA2	Intel XL710-BM2	PCI-E X8	Gen 3	ADPC0710009	XXV710DA2G1P5	
HHHL	25Gb	SFP28	2 port	MELLANOX	CX512A	ConnectX-5 EN	PCI-E X8	Gen 3	ADPC512A000	MCX512A-ACAT	
HHHL	25Gb	SFP28	2 port	MELLANOX	CX512F	ConnectX-5 EN	PCI-E X16	Gen 3	ADPC0512002	MCX512F-ACAT	
HHHL	10Gb	RJ45	2 port	Intel	X540-T2	Intel X540	PCI-E X8	Gen 2	ADPC0540000	X540T2G1P5	
HHHL	10Gb	SFP+	2 port	Intel	X520-DA2	Intel 82599ES	PCI-E X8	Gen 2	ADPC0042000	E10G42BTDAG1P5	
HHHL	10Gb	SFP+	2 port	Intel	X710-DA2	Intel X710-AM2	PCI-E X8	Gen 3	ADPC0710007	EX710DA2G1P5	
HHHL	1Gb	RJ45	4 port	Intel	I350-T4v2	Intel I350	PCI-E X4	Gen 2	ADPC0350001	I350T4G2P20	

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GPU CCL

Vendor	Model	Chip	TDP	Gen	Bus	Video_memory	Form Factor	Slot	QuantaPN	VendorPN	Note
nVidia	Tesla T4	TU104	70W	Gen 3	PCI-E X16	16GB	HHHL	Single Slot	ADLB2G18002	900-2G183-0000-000	
nVidia	Tesla V100	GV100	250W	Gen 3	PCI-E X16	32GB	FHFL	Dual Slot	ADLB2G50015	900-2G500-0010-000	

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Flash Disk CCL

Vendor	Model	QuantaPN	VendorPN	Type	Size	Speed	Note
Transcend	NA	ADF08GUS002	TS8GUSDC10M	MicroSD	8GB	Class 10	
Transcend	NA	ADF08SHU002	TS008SHU-9155M10X	MicroSD	8GB	Class 10	

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InfiniBand Card CCL

Shape	MaxLink_Bankwidth	Connector	Port	Chip	Bus	Gen	Vendor	Model	QuantaPN	VendorPN	Note
HHHL	FDR	QSFP28	2	ConnectX-4 VPI	PCI-E X16	Gen 3	MELLANOX	CX456A	ADPC456A000	MCX456A-FCAT	

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PSU CCL

Power Capacity	Type	Efficiency	Dimension(mm)	240VDC	Cold redundancy	QuantaPN	VendorPN	Note
1600W	Redundant	Platinum	73.5*185*40	Yes	Yes	AFG00B00028	FSH018-930G	

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SSD CCL

Form Factor	Type	Bandwidth	Capacity	NAND Type	Process	Vendor	Product family	QuantaPN	VendorPN	Note
Daughter card	PCI-e	Gen3 X4	1TB	3D_TLC	NA	Intel	P4101	ABS010T8013	NA	
Daughter card	PCI-e	Gen3 X4	1TB	3D_TLC	NA	Intel	P4511	ABS010T8006	NA	
Daughter card	PCI-e	Gen3 X4	256GB	3D_TLC	NA	Intel	P4101	ABS256G8028	NA	
Daughter card	SATAIII	6Gb/s	480GB	3D_TLC	NA	Intel	S4510	ABS480G8004	NA	
Daughter card	SATAIII	6Gb/s	240GB	3D_TLC	NA	Intel	S4510	ABS240G8012	NA	
2.5 - 7mm	SATAIII	6Gb/s	3.84TB	3D_TLC	NA	Intel	S4510	ABS038T8001	NA	
2.5 - 7mm	SATAIII	6Gb/s	3.84TB	3D_TLC	NA	Intel	S4610	ABS038T8000	NA	
2.5 - 7mm	SATAIII	6Gb/s	1.92TB	3D_TLC	NA	Intel	S4510	ABS019T8001	NA	
2.5 - 7mm	SATAIII	6Gb/s	1.92TB	3D_TLC	NA	Intel	S4610	ABS019T8000	NA	
2.5 - 7mm	SATAIII	6Gb/s	960GB	3D_TLC	NA	Intel	S4510	ABS960G8001	NA	
2.5 - 7mm	SATAIII	6Gb/s	960GB	3D_TLC	NA	Intel	S4610	ABS960G8000	NA	
2.5 - 7mm	SATAIII	6Gb/s	480GB	3D_TLC	NA	Intel	S4510	ABS480G8000	NA	
2.5 - 7mm	SATAIII	6Gb/s	480GB	3D_TLC	NA	Intel	S4610	ABS480G8001	NA	
2.5 - 7mm	SATAIII	6Gb/s	240GB	3D_TLC	NA	Intel	S4510	ABS240G8000	NA	
2.5 - 7mm	SATAIII	6Gb/s	240GB	3D_TLC	NA	Intel	S4610	ABS240G8001	NA	
2.5 - 15mm	PCI-e	Gen3 X4	8TB	3D_TLC	NA	Intel	P4510	ABS080T8001	NA	
2.5 - 15mm	PCI-e	Gen3 X4	4TB	3D_TLC	NA	Intel	P4510	ABS040T8002	NA	
2.5 - 15mm	PCI-e	Gen3 X4	3.2TB	3D_TLC	NA	Intel	P4610	ABS032T8000	NA	
2.5 - 15mm	PCI-e	Gen3 X4	2TB	3D_TLC	NA	Intel	P4510	ABS020T8005	NA	
2.5 - 15mm	PCI-e	Gen3 X4	1.6TB	3D_TLC	NA	Intel	P4610	ABS016T8000	NA	
2.5 - 15mm	PCI-e	Gen3 X4	1TB	3D_TLC	NA	Intel	P4510	ABS010T8022	NA	

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TPM CCL

Model	QuantaPN	VendorPN	Note
NA	3TS3ATB00C0	3TS3ATB00C0	

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FPGA CCL

Vendor	Model	Chip	Gen	Bus	Speed	Port	Type	QuantaPN	VendorPN	Note
Intel	N3000	Intel Arria 10 GT	Gen 3	PCI-E X16	50Gb	2 port	QSFP28	AD00N300001	BD-NVV-N3000-2	

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