SPECIFICATION

Model No.: CTFINDUSB-32X7

I. Applications:

This specification specifies electrical, physical, mechanical features and etc external environment requirements to this industrial USB3.2 GenII 7-Port hub with model# CTFINDUSB-32X7.

II. Highlights:

- 7-Port Industrial USB 3.2 Hub and with built-in 15KV ESD Protection;
- Over-current detection and protection circuit design;
- Supports 600W power input surge protection on each port;
- Wall and DIN rail-mount supported;

III. Environmental Specifications:

Operating Temperature	-10°C—50°C	Storage Temperature	-20°C~65°C
Operating Humidity	5%—85%	Storage Humidity	5%—95%
Operating Altitude	-1000 to 10000 Ft	Atmosphere	70—106Mpa

IV. Features:

- Industrial grade rugged metal enclosure design
- ♦ Redundant 9VDC up to 30VDC power input
- ♦ 15KV ESD USB interface protection
- ♦ Power input surge protection (600W) for each port
- Over-current detection and protection circuit design
- ♦ Wall and DIN rail mount support

V. Specification:

- Chipset: VL822Q7, VL817Q7S
- Compliant with Universal Serial Bus 3.2 Specification
- Maximum data transfer rate: 10Gbps
- Surge Protection: 600W (max)
- Supports USB Battery Charging v1.2
- Metal housing with mounting mechanism
- Interfaces/Ports:
 - Input: USB 3.2 GenII Type C
 - Input: Terminal block (3-Wire), Power
 - Input: DC power adapter jack (5.5mm x 2mm x 10mm)
 - Output: USB 3.2 GenII Type C x2 + USB 3.2 GenI Type A x5
- Power requirements:
 - Input voltage: 9VDC~30VDC

Output current: 2x USB-C with each 2.4A, 4x USB-A with each 1A, 1x USB-A with 2.4A, total 56W max

- Power consumption: 60W
- LED Indicate power on:
- ♦ Package Contents:

USB3.2 C TO C CABLE 1M	1PC
DIN RAIL	1PC
WALL MOUNT KIT	1SET
SCREW PACK	1PACK
USER MANUAL	1PC
3 PIN TERMINAL	1PC

VI. Physical Specifications:

- ♦ Dimensions: 138.8*68.5*25 mm
- ♦ Net Weight: 298 g
- ♦ Color: Black;

VII.Benchmark Test:

♦ Test Environment

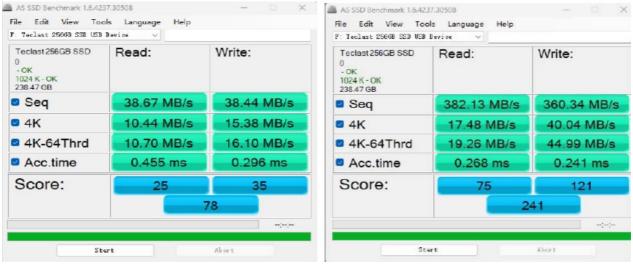
Item	Name	Specification	ltem	Name	Specification
1	OS	WINDOWS 10 64bit	2	CPU	AMD Ryzen5 3400G
3	MB	ASUS X570-PRO	4	DDR	8GB
5	Graphics	integrated	6	USB3.2(10G)	integrated

♦ Test Data

Testing Software			AS SSD Benchmark	
	PORT 1	USB2.0	READ: 38.67MB/S	WRITE: 38.44MB/S
		USB3.2	READ:382.13MB/S	WRITE: 360.34MB/S
		USB2.0	READ: 38.67MB/S	WRITE: 38.43MB/S
	PORT 2	USB3.2	READ: 383.54MB/S	WRITE: 361.37MB/S
ASM235 主控 IC		USB2.0	READ: 38.67MB/S	WRITE: 38.34MB/S
外接盒+Teclast SATA SSD SD256GBA800 256G	PORT 3	USB3.2	READ: 381.94MB/S	WRITE: 359.10MB/S
2509	PORT 4	USB2.0	READ: 38.66MB/S	WRITE: 38.33MB/S
		USB3.2	READ: 382.56MB/S	WRITE: 362.93MB/S
	PORT 5	USB2.0	READ: 38.71MB/S	WRITE: 38.58MB/S
	PURT 5	USB3.2	READ: 388.5MB/S	WRITE: 363.8MB/S
		USB2.0	READ: 39.18MB/S	WRITE: 38.98MB/S
RTL9210 主控 IC	PORT 6	USB3.2_A	READ: 879.21MB/S	WRITE: 760.36MB/S
外接盒+ SAMSUNG NVME M.2 SSD		USB3.2_B	READ: 876.87MB/S	WRITE: 761.95MB/S
970EVO Plus 250G		USB2.0	READ: 39.18MB/S	WRITE: 39.0MB/S
	PORT 7	USB3.2_A	READ: 879.15MB/S	WRITE: 757.29MB/S
		USB3.2_B	READ: 872.55MB/S	WRITE: 759.39MB/S

Note: Above records are only for ref., test result will be different under different test environments or different HDDs.

VIII. Data Screenshots:



♦ Port 1_USB2.0/USB3.2 w/ 256G 2.5" SSD Testing:

F: Teclast 25666 SSD USB	Device v		F: Teolest 256GB SSD USB	Device 🗸	
Teclast 256GB SSD 0 - OK 1024 K - OK 238.47 GB	Read:	Write:	Teclast256GB SSD 0 - OK 1024 K - OK 238.47 GB	Read:	Write:
Seq	38.67 MB/s	38.43 MB/s	Seq	383.54 MB/s	361.37 MB/s
☑ 4K	10.45 MB/s	15.35 MB/s	■ 4K	17.52 MB/s	40.01 MB/s
4K-64Thrd	10.69 MB/s	16.31 MB/s	4K-64Thrd	19.21 MB/s	45.01 MB/s
Acc.time	0.456 ms	0.296 ms	Acc.time	0.267 ms	0.221 ms
Score:	25	35	Score:	75	121
		78		2	241

♦ Port 2_USB2.0/USB3.2 w/ 250G 2.5" SSD Testing:



♦ Port 3_USB2.0/USB3.2 w/ 256G 2.5" SSD Testing

Teclast 256GB SSD 0 - OK 1024 K - OK 238.47 GB	Read:	Write:	Teclast 256GB SSD 0 - OK 1024 K - OK 238.47 GB	Read:	Write:
Seq 2	38.66 MB/s	38.33 MB/s	Seq	382.56 MB/s	362.93 MB/
■ 4K	10.44 MB/s	15.36 MB/s	■ 4K	17.66 MB/s	41.34 MB/s
4K-64Thrd	10.69 MB/s	16.32 MB/s	4K-64Thrd	19.28 MB/s	45.17 MB/s
Acc.time	0.455 ms	0.329 ms	Acc.time	0.265 ms	0.245 ms
Score:	25	36	Score:	75	123
		78		2	43

♦ Port 4_USB2.0/USB3.2 w/ 256G 2.5" SSD Testing

F: Teclast 256GB SSD VSB Teclast 256GB SSD	Read:	Write:	F: Teclast 256GB SSD USB	Read:	Write:
0 - OK 1024 K - OK 238.47 GB			0 - OK 1024 K - OK 238.47 GB		
Seq	38.71 MB/s	38.58 MB/s	Seq	388.50 MB/s	363.80 MB/s
2 4K	10.47 MB/s	15.35 MB/s	❷ 4K	17.54 MB/s	40.44 MB/s
4K-64Thrd	10.70 MB/s	16.41 MB/s	4K-64Thrd	19.44 MB/s	45.96 MB/s
Acc.time	0.454 ms	0.296 ms	Acc.time	0.264 ms	0.244 ms
Score:	25	36	Score:	76	123
		78		2	44

♦ Port 5_USB2.0/USB3.2 w/ 256G 2.5" SSD Testing

AOKO M2 NVMe SCSI 1.00 UASPStor - OK 1024 K - OK 232 88 GB	Read:	Write:
Seq	879.21 MB/s	760.36 MB/s
■ 4K	36.28 MB/s	57.49 MB/s
4K-64Thrd	175.91 MB/s	89.76 MB/s
Acc.time	0.069 ms	0.063 ms
Score:	300	223
	6	86

AOKO M.2 NVMe SCSI 1.00 UASPStor - OK 1024 K - OK 232 85 GB	Read:	Write:
Seq	876.87 MB/s	761.95 MB/s
☑ 4K	36.43 MB/s	57.61 MB/s
4K-64Thrd	194.37 MB/s	55.51 MB/s
Acc.time	0.069 ms	0.063 ms
Score:	318	189
	6	80

- 0 File Edit View Tools Language Help E: ADED M. 2 NVM & VSB Device \sim

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AS SSD Benchmark 1.6.4237.30508

AOKO M.2 NVMe USB 1.00	Read:	Write:	
- OK 1024 K - OK 232.88 GB			
Seq	39.18 MB/s	38.98 MB/s	
■ 4K	15.86 MB/s	18.32 MB/s	
4K-64Thrd	17.21 MB/s	17.27 MB/s	
Acc.time	0.209 ms	0.149 ms	
Score:	37	39	
	1	03	
Ste	rt	Abert	

♦ Port 6_USB2.0/USB3.2 w/ 250G M.2 SSD Testing

Score:	317	180	Score:	318	186
Acc.time	0.079 ms	0.075 ms	Acc.time	0.069 ms	0.065 ms
4K-64Thrd	193.37 MB/s	47.84 MB/s	4K-64Thrd	194.78 MB/s	52.86 MB/s
■ 4K	35.93 MB/s	56.67 MB/s	■ 4K	36.33 MB/s	57.19 MB/s
Seq	879.15 MB/s	757.29 MB/s	Seq	872.55 MB/s	759.39 MB/s
AOKO M.2 NVMe SCSI 1.00 UASPStor - OK 1024 K - OK 232.88 GB	Read:	Write:	AOKO M 2 NVMe SCSI 1.00 UASPStor - OK 1024 K - OK 232.88 GB	Read:	Write:

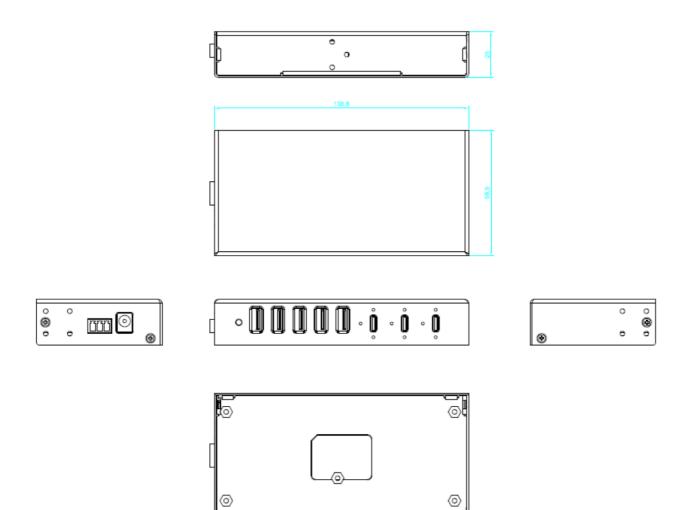
🚔 AS SSD Benchmark 1.6.4237.30508 - 🗆 🗙

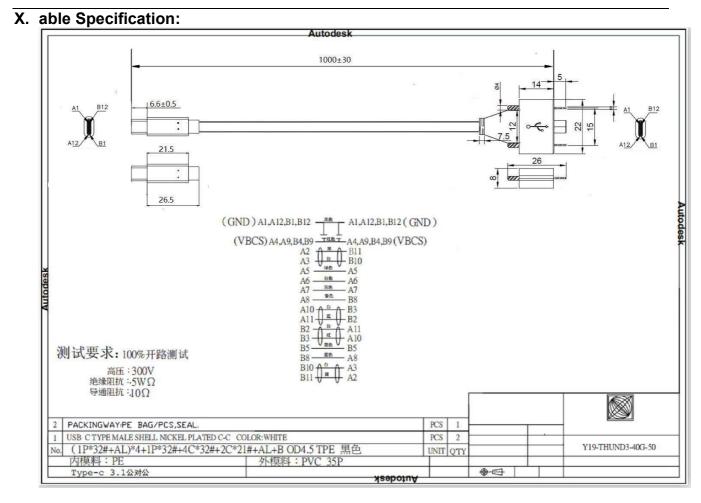
File Edit View Tools Language Help

	1	03
Score:	37	39
Acc.time	0.210 ms	0.150 ms
4K-64Thrd	17.22 MB/s	17.27 MB/s
🛯 4K	15.82 MB/s	18.25 MB/s
Seq	39.18 MB/s	39.00 MB/s
AOKO M.2 NVMe USE 1.00 - OK 1024 K - OK 232.88 GB	Read:	Write:

♦ Port 7_USB2.0/USB3.2 w/ 250G M.2 SSD Testing

IX. Device Drawing:





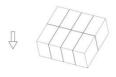
XI. Packing & Storage:

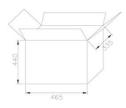
- ♦ Packaging: White box
- ♦ Storage:

The unit should be stored in a clean, dry and ventilated circumstance, with temperature of $-20^{\circ}C \sim 65^{\circ}C$ typically;

And it should be avoided to touch with the corrosive substance and should be away from excessive heat and open flames.

♦ Packing:





Instruction: 1. one product in each box 2.2 layers total,20 pcs/ctn 3.carton size:455x345x435 mm Remark: the material of carton and paperboard is K=K, thickness 6mm±1

XII.Product Photo:

