H45E

• Surveillance / Edge AI • Factory Automation • Military/ Defense
• Gaming • Healthcare

38.5 mm
29.6 mm

42.0 mm
22.0 mm

80.0 mm
22.0 mm
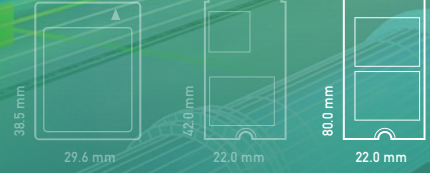
PCIe Gen4x4 | M.2 2280

addlink H45E M.2 2280 PCIe Gen4x4 SSDs use the latest powerful Gen4x4 industrial controller and are equipped with 112 Layer 3D TLC (BICS5) NAND flash and delivers significant outstanding performance boost with sequential read/write speeds of up to 7200/6500 MB per second. addlink H45E default comes with a premium heatsink that uses High-Grade aluminum and crosscutting of the flat fins design to dissipate heat more efficiently and stimulate airflow. The H45E SSD is available in 480GB to 3840GB capacities and comes with addlink's Toolbox software for easy management and real-time monitoring. It is an ideal solution for edge AI, factory automation, military, surveillance, gaming and healthcare applications.

Features

• Premium Heat-Spreader
• Max. Speed up to 7200/6500 MB per second
• AES-256-bit Encryption & TCG-OPAL 2.0 Complaint*
• LDPC with RAID ECC
• Thermal Protection Mechanism
• SMART Toolbox for SSD health monitoring
• Outstanding data transfer speed
• Wide-temperature support: -40°C to 85°C

* It's optional function and support by specific firmware

Specifications

|	
Form Factor / Interface	M.2 2280 / PCIe G4x4
Connector	M.2 M key with PCIe pin out
DRAM / Flash	DDR4 / 3D TLC
Capacity	480~3840GB
Sequential Read/Write (up to)	R:7200 MB/s, W:6500 MB/s
Random Read/Write (up to)	R:900k IOPS, W:1000K IOPS
Supply (V)	3.3V + -5%
Max. Endurance	6,800 TBW (3480GB)
Max. Power Consumption (R/W)	11/11W
Max. Idle Power Consumption	<2W
Shock / Vibration	1500G0-P/0.5ms duration, 20Hz~80Hz/1.52mm 80Hz~2000Hz/20G
Operating Humidity	5%-95% RH, non-condensing
Operating Temperature	Standard: 0°C to 70°C, Industrial: -40°C to 85°C
MTBF	1.6M hrs
Security (Optional)	TCG OPAL 2.0 Compliant
ToolBox Utility	Supported
Technologies	LDPC/RAID ECC, Thermal Throttling, SLC Cache, Wear Leveling, Bad block management, TRIM command, S.M.A.R.T.

TCG OPAL	Write Protect	Secure Erase	ToolBox	Advance Thermal Solution
○	○	●	●	○

● Default Implemented   ○ On Request   — Not Available

addlink
Industrial

Dimensions

• 80.00mm (L) x 22mm (W) x 8.75 mm (H)
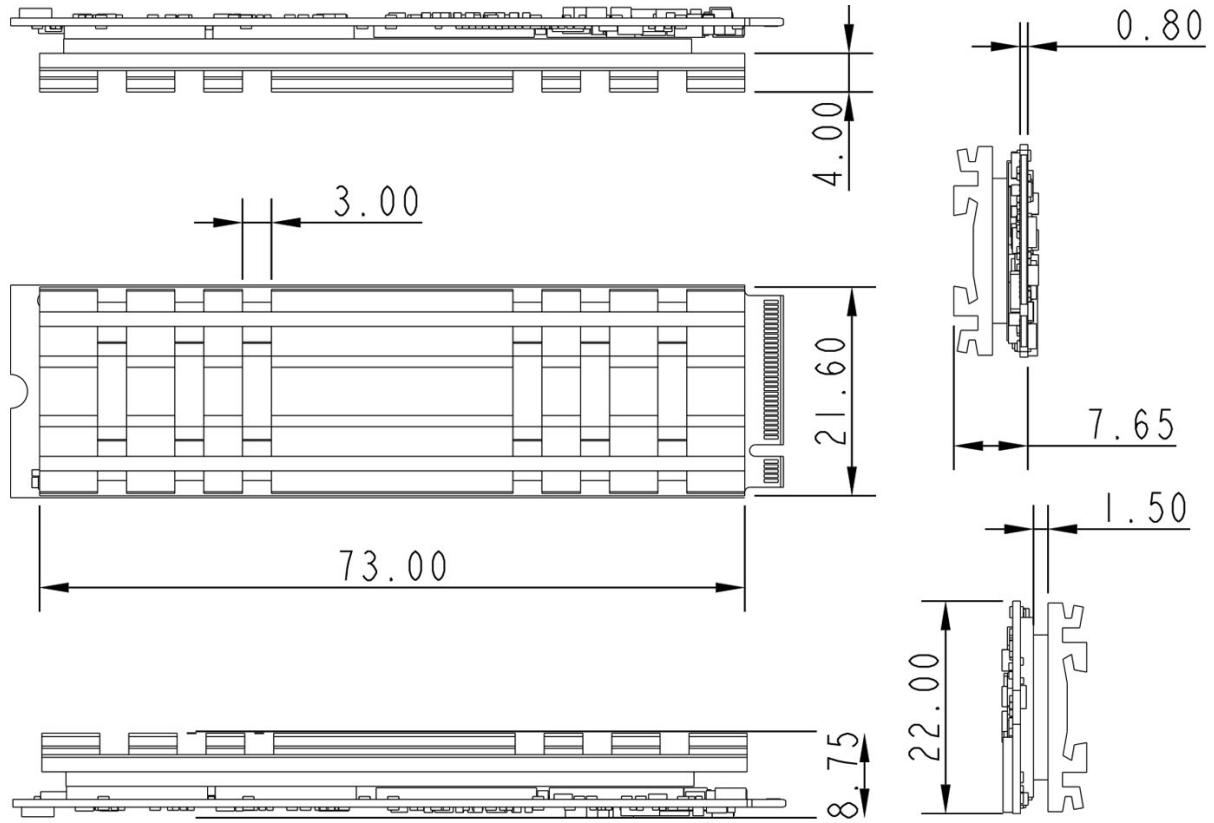
Ordering Information

Capacity	Commercial (0°C~70°C)	Industrial (-40°C~+85°C)
480GB	ad480GBH45ETC	ad480GBH45ETA
960GB	ad960GBH45ETC	ad960GBH45ETA
1920GB	ad1920GBH45ETC	ad1920GBH45ETA
3840GB	ad3840GBH45ETC	ad3840GBH45ETA

addlink
Industrial

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