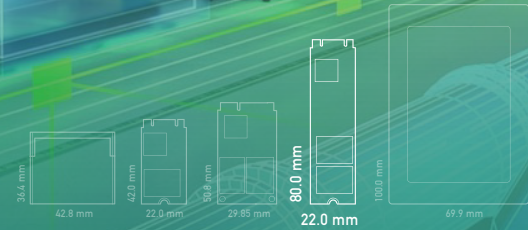# E25CP

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

SATA III 6Gb/s | M.2 2280

addlink E25CP M.2 2280 SATAIII SSDs use an industrial grade controller equipped with Kioxia BICS5 pSLC NAND deliver better endurance (up to 13,000 TBW) and higher performance SSD, making it the best industrial storage solution for embedded system. addlink E25CP is compliant with TCG OPAL for data security and supports the latest LDPC ECC, advanced wear leveling, and over-provision technology. It also optionally supports three low power consumption modes to ensure SSD can extend battery life efficiently. The E25CP SSD is available in 32GB to 256GB capacities and comes with addlink's Toolbox software for easy management and real-time monitoring. It is an ideal solution for surveillance, edge AI, factory automation, smart retail, military, gaming, and healthcare applications.
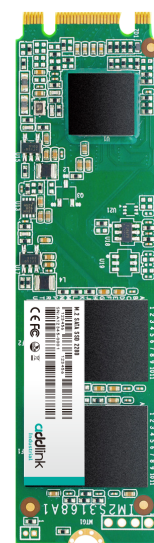
Features

• High Endurance pSLC Flash Technology
 (up to 13,000TBW - 256GB)
• AES-256-bit Encryption &
 TCG-OPAL 2.0 Complaint*
• Support DEVSLP Mode*
• Low Power Consumption
 (Max. Read/Write <1.32W)
• LDPC with RAID ECC
• Thermal Protection Mechanism
• SMART Toolbox for SSD health monitoring
• Wide-temperature support: -40°C to 85°C

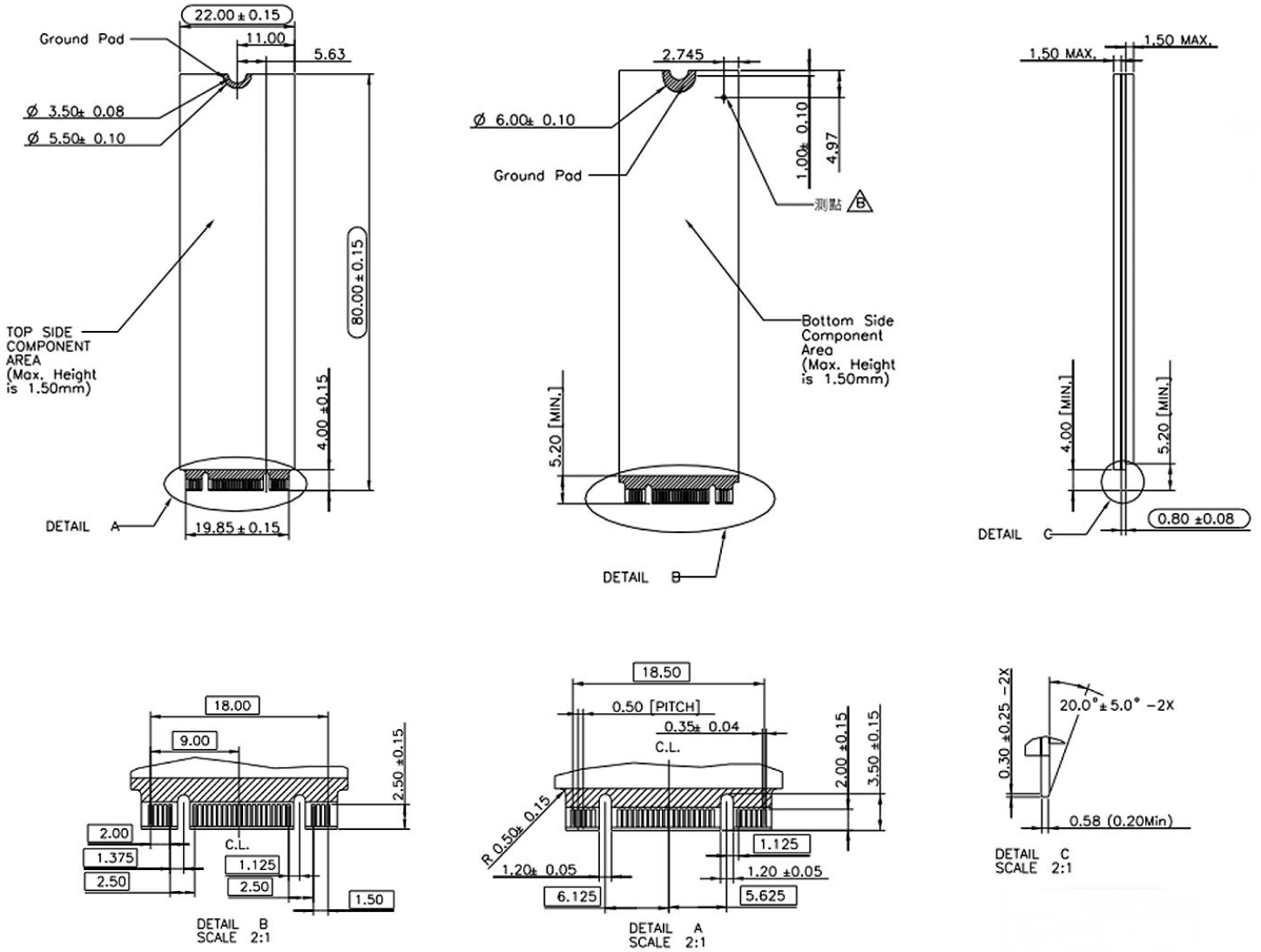* It's optional function and support by specific firmware

Specifications

Form Factor / Interface	M.2 2280 / SATA III
Connector	M.2 with B+M Key SATA Pin-out
Flash	pSLC
Capacity	32GB~256GB
Sequential Read/Write (up to)	R: 550 MB/s, W: 510 MB/s
Random Read/Write (up to)	R: 49.5K IOPS, W: 78.5k IOPS
Supply (V)	3.3V + -5%
Max. Endurance	13,000 TBW (256GB)
Max. Power Consumption (R/W)	1.32/1.2 W
Max. Idle Power Consumption	0.175W
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	3M hrs
Security (Optional)	TCG OPAL 2.0 Compliant
Technologies	LDPC ECC, Thermal Throttling, SLC Cache, Wear Leveling, Bad block management, TRIM command, S.M.A.R.T.

TCG OPAL	Write Protect	Secure Erase	Crypto Erase	ToolBox	Advance Thermal Solution	DEVSLP Mode	Destroy Erase
○	○	●	○	●	○	○	○

● Default Implemented   ○ On Request   — Not Available

addlink
Industrial

Dimensions

- 80.00mm (L) x 22mm (W) x 1. 35 mm (H)

Ordering Information

Capacity	Commercial (0°C~70°C)	Industrial (-40°C~+85°C)
32GB	ad32GBE25CPC	ad32GBE25CPA
64GB	ad64GBE25CPC	ad64GBE25CPA
128GB	ad128GBE25CPC	ad128GBE25CPA
256GB	ad256GBE25CPC	ad256GBE25CPA

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Industrial

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