



# M.2 (P42) 4TE3

## HIGHLIGHT FEATURES

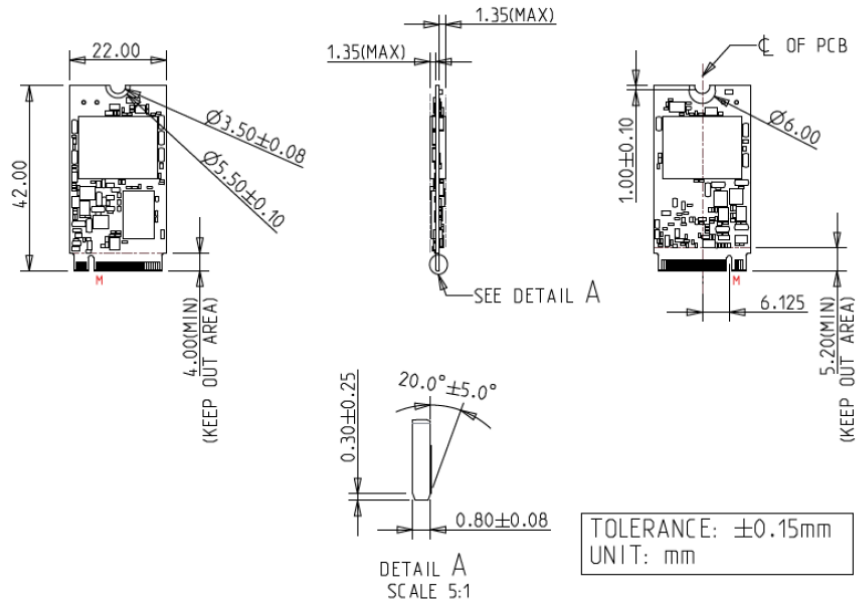
- PCIe Gen 4 x4, NVMe 1.4
- Stable sustained performance
- LDPC ECC engine supported
- 256-bit AES hardware based encryption
- Hybrid write mode with SLC cache enable
- Dynamic thermal management

## SPECIFICATIONS

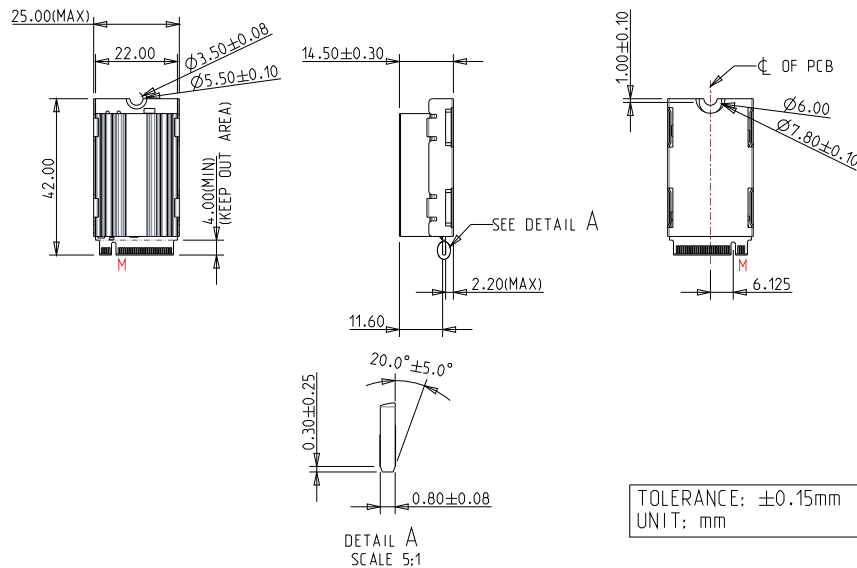
|                                 |                                                                         |
|---------------------------------|-------------------------------------------------------------------------|
| Model Name                      | M.2 (P42) 4TE3                                                          |
| Flash Type                      | 3D TLC                                                                  |
| Interface                       | PCIe Gen 4 x4                                                           |
| Form Factor                     | M.2 2242 M Key                                                          |
| Capacity                        | 128GB ~ 2TB                                                             |
| Sequential R / W (MB/sec, max.) | 3,650 / 3,000                                                           |
| P/E Cycle                       | 3,000                                                                   |
| TBW (Max.)                      | 1,621                                                                   |
| Storage Temperature             | -40°C ~ 85°C                                                            |
| Max. Power Consumption          | 4.8W                                                                    |
| Max. Channels                   | 4                                                                       |
| External DRAM Buffer            | N                                                                       |
| H/W Write Protect               | Y (Optional)                                                            |
| S.M.A.R.T.                      | Y                                                                       |
| AES                             | Y (Optional)                                                            |
| TCG Opal                        | Y (Optional)                                                            |
| Dimension (W x L x H/mm)        | Pure M.2 : 22.0 x 42.0 x 3.5<br>W/T with heat sink : 25.0 x 42.0 x 14.5 |
| Vibration                       | 20G@[7 ~ 2000Hz]                                                        |
| Shock                           | 1500G@0.5ms                                                             |
| MTBF                            | >3 million hours                                                        |
| Warranty                        | 3 Years                                                                 |

# DIAGRAM

ST



WT



Note: The appearance of silicone oil seeping out from the inside of the thermal pad is a normal occurrence. Silicone oil is not electrically conductive, so it does not impact the functionality of SSD.

## ORDER INFO.

| Operating Temperature | Standard Grade (0°C ~ 70°C) | Industrial Grade (-40°C ~ 85°C) |
|-----------------------|-----------------------------|---------------------------------|
| 128GB                 | DEM24-A28DH1KCADF(W)        | DEM24-A28DH1KWADF(W)H           |
| 256GB                 | DEM24-B56DH1KCAQF(W)        | DEM24-B56DH1KWAQF(W)H           |
| 512GB                 | DEM24-C12DH1KCAQF(W)        | DEM24-C12DH1KWAQF(W)H           |
| 1TB                   | DEM24-01TDH1KCAQF(W)        | DEM24-01TDH1KWAQF(W)H           |
| 2TB                   | DEM24-02TDH1KCAQF(W)        | DEM24-02TDH1KWAQF(W)H           |

W : H/W Write Protect

For TCG Opal function, the PN Code 10th ~ 12th will be DH2.

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