

# Product Specification

## 2 TB (2000GB)M2 Series M.2 2280 PCIe NVMe SSD



The M2 Series M.2 PCIe NVMe SSDs are up to seven times faster in performance when compared to SATA SSDs and are compatible with most computing hardware and software that support the NVME standard, including small form factor machines (e.g Intel NUC), Ultrabooks and enthusiast desktops

- PCIe Gen3x4
- Compliant with PCI Express Base Specification Rev 3.1
- Compliant with NVMe 1.4
- Non-volatile Flash Memory for outstanding data retention
- Ultra-efficient Block Management and Wear Levelling
- Supports S.M.A.R.T. - Self-Monitoring, Analysis and Reporting Technology
- 5 year warranty or TBW - whichever is earlier applies

|            |                 |
|------------|-----------------|
| <b>SKU</b> | INSSD2TM280NM2X |
| <b>EAN</b> | 5055288449688   |

|                  |                   |                   |                    |                   |
|------------------|-------------------|-------------------|--------------------|-------------------|
|                  | <b>Width (mm)</b> | <b>Depth (mm)</b> | <b>Height (mm)</b> | <b>Weight (g)</b> |
| <b>Product</b>   | 22                | 80                | 2.25               | 10                |
| <b>Packaging</b> | 13.2              | 5.7               | 11.5               | 58                |

|                                                                |                   |
|----------------------------------------------------------------|-------------------|
| <b>Capacity (GB)</b>                                           | 2 TB              |
| <b>Component for</b>                                           | PC/Notebook       |
| <b>Form factor</b>                                             | M.2               |
| <b>Flash type</b>                                              | 3D TLC            |
| <b>NVMe (Y/N)</b>                                              | Y                 |
| <b>Controller type</b>                                         | Phison PS3111-S11 |
| <b>S.M.A.R.T. support (Y/N)</b>                                | Y                 |
| <b>TRIM support (Y/N)</b>                                      | Y                 |
| <b>Data transfer rate (GB per second)</b>                      | 8                 |
| <b>Read speed (MB per second)</b>                              | 3450              |
| <b>Write speed (MB per second)</b>                             | 3200              |
| <b>Random read (4KB) (Input/Output Operations Per Second)</b>  | 290000            |
| <b>Random write (4KB) (Input/Output Operations Per Second)</b> | 280000            |
| <b>Operating voltage (Volt)</b>                                | 3.3               |
| <b>Power consumption (read) (Watt)</b>                         | 2.87              |
| <b>Power consumption (write) (Watt)</b>                        | 2.36              |
| <b>Hardware encryption (Y/N)</b>                               | N                 |

|                                                      |                 |
|------------------------------------------------------|-----------------|
| <b>Interface</b>                                     | PCI Express 3.1 |
| <b>Operating temperature (T-T) (degrees Celcius)</b> | 0 - 70          |
| <b>Storage temperature (T-T) (degrees Celcius)</b>   | -40 - 85        |
| <b>Operating vibration (gravity)</b>                 | 1500            |
| <b>Sustainability certificates</b>                   | RoHS            |
| <b>Certification</b>                                 | CE, FCC, UKCA   |
| <b>Warranty</b>                                      | 5 year warranty |