

#### CAT2A



#### GENERAL INFORMATION

|                    |  |                |                    |                |
|--------------------|--|----------------|--------------------|----------------|
| TYPE               | CFast™                                     |                |                    |                |
| INTERFACE          | Serial ATA Revision 3.2                    |                |                    |                |
| DATA TRANSFER MODE | SATA 1.5Gbps, 3.0Gbps, 6.0Gbps             |                |                    |                |
| CONNECTOR          | CFast™ Type I                              |                |                    |                |
| OUTLINE DIMENSIONS | 36.4 x 42.8 x 3.6 mm                       |                |                    |                |
| SERIES             | CAT2A                                      |                |                    |                |
| CONTROLLER TYPE    | TDK GBDriver GS2                           |                |                    |                |
| FLASH TYPE         | 3D - SLC mode                              |                | 3D - TLC mode      |                |
|                    | 3D - Gen3                                  | 3D - Gen5      | 3D - Gen3          | 3D - Gen5      |
| DENSITY RANGE      | 16 GB - 128 GB                             | 16 GB - 256 GB | 50 GB - 400 GB     | 50 GB - 800 GB |
| DATA RETENTION     | 10 years @ life begin<br>1 year @ life end |                |                    |                |
| ENDURANCE          | 30,000 P/E Cycles                          |                | 3,000 P/E Cycles   |                |
| ENTERPRISE WL      | *Flash Block Level                         |                | *Flash Block Level |                |

#### TEMPERATURE

|                       |  |
|-----------------------|--|
| OPERATING TEMPERATURE | Commercial: 0°C to +70°C<br>Industrial: -40°C to +85°C   |
| STORAGE TEMPERATURE   | Commercial: -25°C to +85°C<br>Industrial: -40°C to +85°C |

#### PERFORMANCE

|              |               |
|--------------|---------------|
| Read (max.)  | 345 MByte/sec |
| Write (max.) | 295 MByte/sec |

#### ROBUSTNESS

|           |                                |
|-----------|--------------------------------|
| MTBF      | ≥ 2,000,000 hours              |
| SHOCK     | 1500G,0.5ms                    |
| VIBRATION | 20G,10-2000Hz                  |
| HUMIDITY  | 0 to 90 % RH (No condensation) |

#### ELECTRICAL DATA

|                         |   |
|-------------------------|---|
| VOLTAGE                 | 3.3 V ± 5 %   |
| POWER CONSUMPTION (*RT) | - Read: 1140 mW max.<br>- Write: 1370 mW max.<br>- Slumber: 200mW |

#### FEATURE LIST

|                  |  |
|------------------|--|
| FEATURES & TOOLS | <ul style="list-style-type: none"> <li>- In-House Designed Controller (HW/FW)                             <ul style="list-style-type: none"> <li>- SLC Cache, LDPC-ECC, RAID</li> <li>- Temperature monitoring function</li> </ul> </li> <li>- Write-protected area setting tool (on request)                             <ul style="list-style-type: none"> <li>- DRAM-less Design</li> <li>- Power Fail Data Safety</li> <li>- Power Back-up Circuit</li> </ul> </li> <li>- Global static wear leveling                             <ul style="list-style-type: none"> <li>- SMART (life monitor)</li> <li>- NCQ, TRIM</li> </ul> </li> <li>- AES 256 bit encryption, TCG-OPAL (on request)</li> </ul> |
| PART NUMBER      | CAT2AxxxxKHxxA00EAA0   CAT2AxxxxKMxxA00EAA0   CAT2AxxxxKGxxA00EAA0   CAT2AxxxxKLxxA00EAA0  |