

CFast™

CAE1B



GENERAL INFORMATION

TYPE	CFast™	
INTERFACE	Serial ATA Revision 3.1	
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	CAE1B	
CONTROLLER TYPE	 TDK GBDriver GS1	
FLASH TYPE	SLC	pSLC/MLC
DENSITY RANGE	16 GB - 64 GB	pSLC: 16 GB - 128 GB MLC: 32 GB - 256 GB
DATA RETENTION	10 years @ life begin-10% 1 year @ life end	
ENDURANCE ENTERPRISE WL	100,000 P/E Cycles *Flash Block Level	pSLC: 20,000 P/E Cycles MLC: 3,000 P/E Cycles *Flash Block Level

TEMPERATURE

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

PERFORMANCE

Read (max.)	340 MByte/sec	pSLC: 345 MByte/sec MLC: 295 MByte/sec
Write (max.)	105 MByte/sec	pSLC: 145 MByte/sec MLC: 75 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	- Read: 385mA max. - Write: 370mA max. - Slumber: less than 100mA

FEATURE LIST

FEATURES & TOOLS	- In-House Designed Controller (HW/FW) - Power Fail Data Safety - Power Back-up Circuit - Global static wear leveling - SMART - NCQ, TRIM - AES 128/256bit encryption	
PART NUMBER	CAE1BxxxxTXDxB00EAA0	CAE1BxxxxTxDxB00EAA0