

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	16 GB - 128 GB	32 GB - 256 GB
DATA RETENTION	10 years @ life begin-10% 1 year @ life end		
ENDURANCE	100,000 P/E Cycles	20,000 P/E Cycles	3,000 P/E Cycles
ENTERPRISE WL	*Flash Block Level	*Flash Block Level	*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	345 MByte/sec	295 MByte/sec
Write (max.)	105 MByte/sec	145 MByte/sec	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 (*RT)	- Read: 385mA max. - Write: 370mA max. - Slumber: less than 100mA		

FEATURE LIST

FEATURES & TOOLS	- In-House Designed Controller - DRAM-less Design - Power Fail Data Safety - Power Back-up Circuit - Global static wear leveling - SMART - NCQ, TRIM - AES 128/256bit encryption (on request)		
PART NUMBER	CAE1BxxxxTXDxB00EAA0	CAE1BxxxxTKDxB00EAA0	CAE1BxxxxTFDxB00EAA0