Memory 8GB 1600MHz CL11 DDR3 DIMM RP

General Description

Apacer DG.08G2K.KAM is a 1024M x 64 DDR3 SDRAM (Synchronous DRAM) DIMM. This high-density memory module consists of 16 pieces 512M x 8 bits DDR3 synchronous DRAMs in BGA packages and a 2K EEPROM. The module is a 240-pins memory module and is intended for mounting into a connector socket. Decoupling capacitors are mounted on the printed circuit board for each DDR3 SDRAM. The following provides general specifications of this module.

Part Number	Bandwidth	Speed Grade	Max Frequency	CAS Latency
DG.08G2K.KAM	12.8 GB/sec	1600 Mbps	800 MHz	CL11

Density	Organization	Component	Rank
8GB	1024M x 64	512M x8*16	2

Specifications:

♦On-DIMM thermal sensor : No

♦ Organization: 1024 words x 64 bits, 2 ranks

♦ Integrating 16 pieces of 4G bits DDR3 SDRAM sealed FBGA

♦ Package: 240-pin socket type dual in-line memory module (DIMM)

♦ PCB: height 30.0 mm, lead pitch 1.0 mm (pin), lead-free (RoHS compliant)

♦ Power supply VDD: 1.35V (+0.1V ~ -0.067V)

♦ Backward compatible to VDD = VDDQ = 1.5V ± 0.075V -Supports DDR3L devices to be backward compatible in 1.5V applications

♦ Serial Presence Detect (SPD)

♦ Eight Internal banks for concurrent operation (Components)

♦ Interface: SSTL_13

♦ Burst lengths (BL): 8 and 4 with Burst Chop (BC)

♦ /CAS Latency (CL): 6, 7, 8, 9, 10, 11

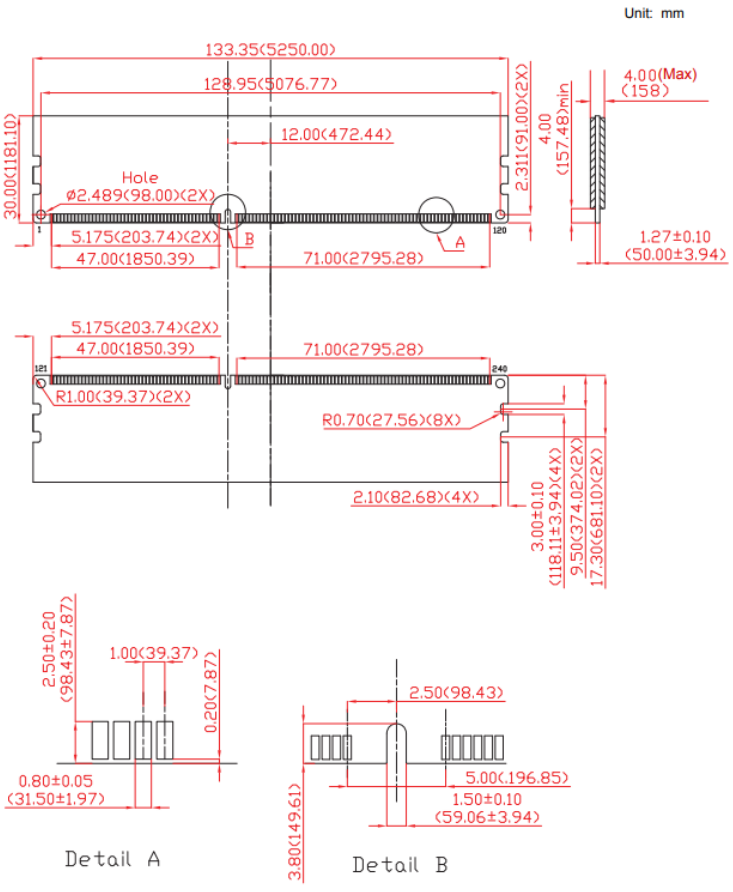
♦ /CAS Write Latency (CWL): 5, 6, 7, 8

♦ Supports auto pre-charge option for each burst access

♦ Supports auto-refresh/self-refresh

♦ Refresh cycles: 7.8 μs at 0°C≤ TC ≤ +85°C

Mechanical Drawing:



(All dimensions are in millimeters with ±0.15mm tolerance unless specified otherwise.)