

## CIR-W3DUSPSM1304G

DDR3 WIDE TEMP. DIMM 1333MHz 4GB

### Description

The CIR-W3DUSPSM1304G is 512MB words X 64 bits, 1 rank. Unbuffered Dual In-Line Memory Module (DIMM). DDR3 SDRAMs in Fine Ball Grid Array (FBGA) packages on a 240pin glass-epoxy substrate. Provide a high performance 8 byte interface in 133.35mm width form factor of industry standard. It is suitable for easy interchange and addition.

### Specifications

Density	4GB
Pin Count	240pin
Type	Unbuffered
Dimensions	133.35mm x 30.0mm
ECC	Non-ECC
Component Config	512M x 8 bit
Data Rate	1333 MHz
CAS Latency	9
Voltage	1.35V / 1.5V
PCB Layers	6
Operating Temp.(TCASE)	-40°C~+85°C
Module Ranks	Single Rank

### Features

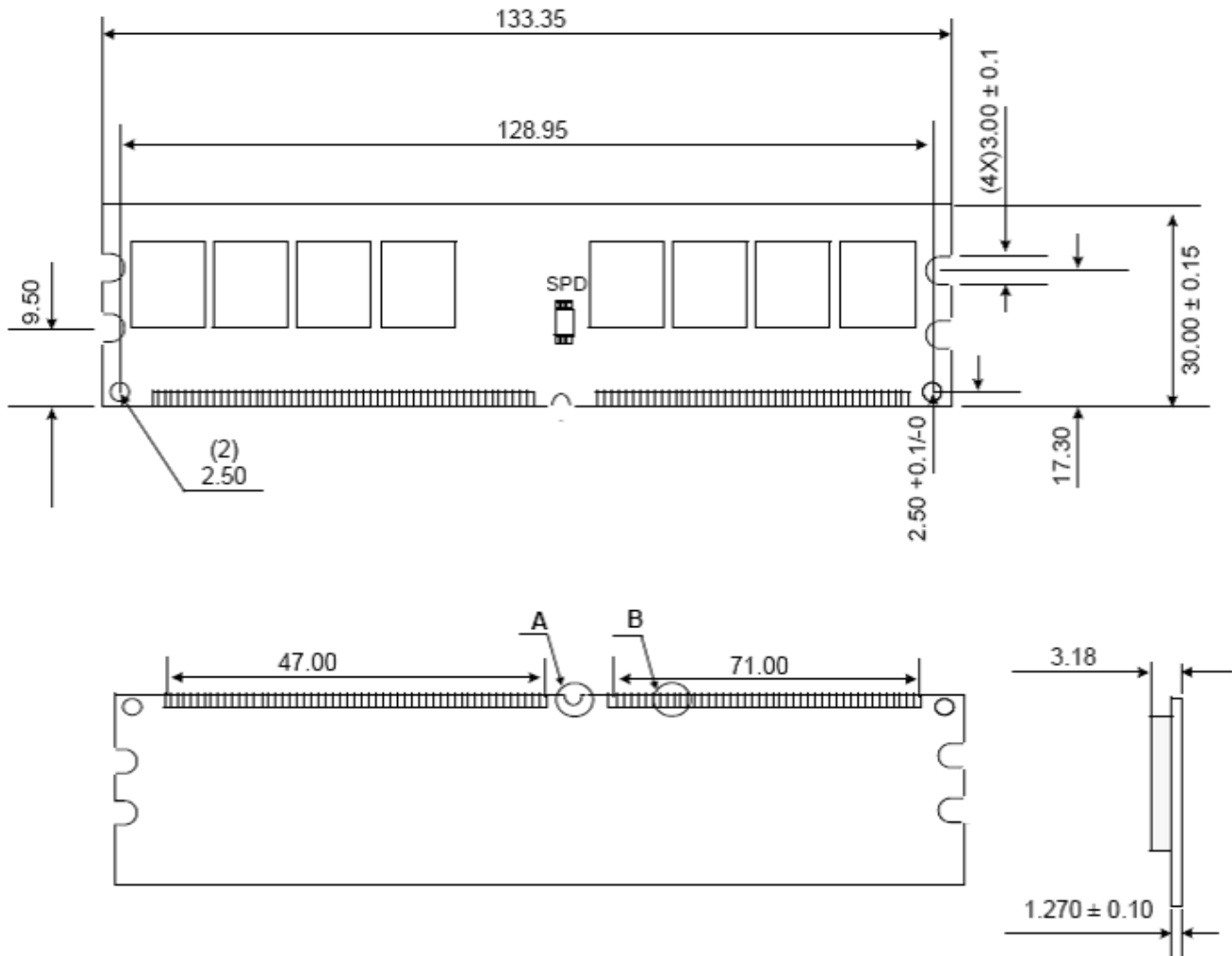
- 240-pin, Dual in-line memory module (DIMM)
- Power supply: VDD= 1.35V (1.28V to 1.45V) & VDD= 1.5V (1.425V to 1.575V)
- Interface: SSTL\_15
- Programmable CAS Latency (CL): 6,7,8,9 support
- Fully differential clock inputs (CK, /CK) operation
- Differential Data Strobe (DQS, /DQS)
- DM masks write data-in at the both rising and falling edges of the data strobe
- BL switch on the fly
- 8banks
- 8K refresh cycles /64ms
- Dynamic On Die Termination supported
- Asynchronous RESET pin supported
- ZQ calibration supported
- TDQS (Termination Data Strobe) supported (x8 only)
- Write Levelization supported
- Refresh: Auto-Refresh, Self-Refresh
- On Die Thermal Sensor supported (JEDEC optional)
- 8 bit pre-fetch
- Lead-Free Products are RoHS compliant
- Support Industrial Temp ( -40 ~85°C )
- -tREFI 7.8us at -40 °C ≤ TCASE ≤ 85°C

### Speed Grade

Frequency Grade	Data Transfer Rate	CAS Latency Support				CL-tRCD-tRP
		CL6	CL7	CL8	CL9	
DDR3-1333	PC3-10600	800	1066	1066	1333	9-9-9

### Package Dimensions

Unit: mm



Tolerances :  $\pm 0.15$ mm unless otherwise specified