

## CIR-W3SUSOSA 1802G

DDR3 WIDE TEMP. SO-DIMM 1866MHz 2GB

### Description

The CIR-W3SUSOSM1802G is 256M words X 64 bits, 1 rank. Unbuffered Small Outline Dual In-Line Memory Module (SO-DIMM). DDR3 SDRAMs in Fine Ball Grid Array (FBGA) packages on a 204pin glass-epoxy substrate. Provide a high performance 8 byte interface in 67.60mm width form factor of industry standard. It is suitable for easy interchange and addition.

### Specifications

|                  |                 |
|------------------|-----------------|
| Density          | 2GB             |
| Pin Count        | 204pin          |
| Type             | Unbuffered      |
| Dimensions       | 67.6mm x 30.0mm |
| ECC              | Non-ECC         |
| Component Config | 256M x 8 bit    |
| Data Rate        | 1866 MHz        |
| CAS Latency      | 13              |
| Voltage          | 1.5V / 1.35V    |
| PCB Layers       | 8               |
| Operating Temp.  | -40°C~+85°C     |
| Module Ranks     | Single Rank     |

### Features

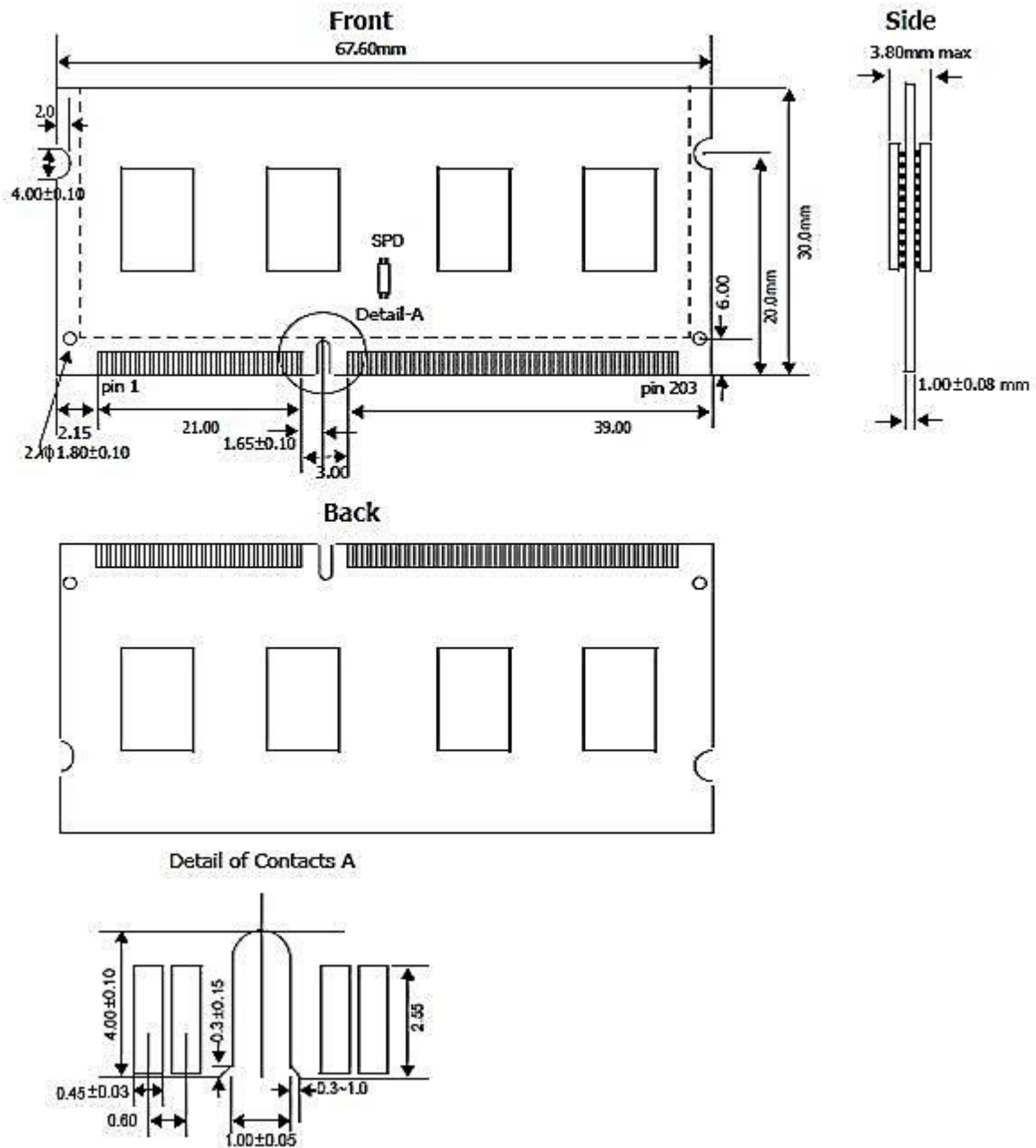
- Data rate:1866MHz
- RoHS compliant products.
- 204pin,Small outline single in-line memory module(SO-DIMM)
- VDDQ= 1.35V (1.28V~1.45V) & VDDQ=1.5V(1.425V~1.575V)
- Programmable CAS Latency(CL):6,7,8,9,10,11,12,13 support
- Fully differential clock inputs (CK, /CK) operation
- Differential Data Strobe (DQS, /DQS)
- Serial presence detect with EEPROM
- 8 independent internal bank
- 8K refresh cycles /64ms
- On Die Termination supported
- Asynchronous RESET pin supported
- ZQ calibration supported
- Programmable Additive Latency(Posted CAS) : 0, CL - 2, or CL - 1 clock
- Bi-directional Differential Data Strobe
- Burst Length: 4, 8
- 8 bit pre-fetch
- 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  | CL10 | CL11 | CL12 | CL13 |             |
| DDR3-1866       | PC3-14900          | 800                 | 1066 | 1066 | 1333 | 1333 | 1600 | 1600 | 1866 | 13-13-13    |

### Package Dimensions

Unit: mm



Tolerances : ± 0.15mm unless otherwise specified