

## CIR-W4DUSY3216G

DDR4 WIDE TEMP. DIMM 3200MHz 16GB

### Description

CIR-W4DUSY3216G is a CMOS Double Data Rate IV (DDR4) Synchronous DRAM module, in Fine Ball Grid Array(FBGA) packages on a 288pin glass-epoxy substrate.

DDR4 unbuffered UDIMM series offers fully synchronous operations referenced to both rising and falling edges of the clock. The data paths are internally pipelined and 8-bit prefetched to achieve very high bandwidth.

### Specifications

|                        |                    |
|------------------------|--------------------|
| Density                | 16GB               |
| Pin Count              | 288pin             |
| Type                   | Unbuffered         |
| Dimensions             | 133.35mm x 31.25mm |
| ECC                    | Non-ECC            |
| Component Config       | 1G x 8 bit         |
| Data Rate              | 3200 MHz           |
| CAS Latency            | 22                 |
| Voltage                | 1.2V               |
| PCB Layers             | 8                  |
| Operating Temp.(TCASE) | -40°C~+95°C        |
| Module Ranks           | Dual Rank          |

### Features

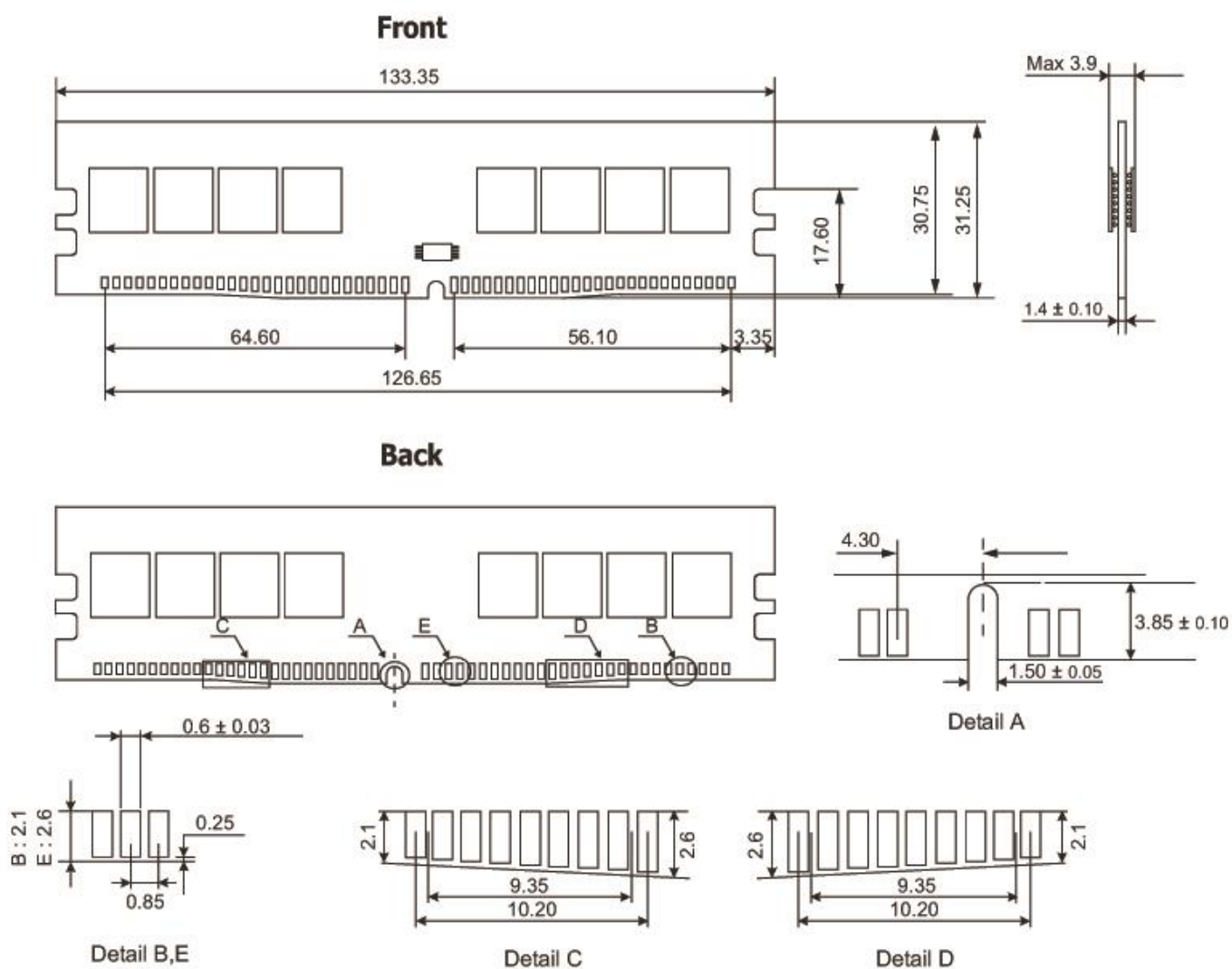
- JEDEC standard
- VDD=VDDQ = 1.2V±0.06V (1.14V~1.26V)
- Inputs and Outputs are SSTL-12compatible
- Programmable CAS Latency(posted CAS): 11,12,13,14,15,16,17,18,19,20,21,22
- Low-Power auto self-refresh(LPASR)
- SDRAMs have 16internal banks for concurrent operation(4 Bank Group of 4 banks each)
- Normal and Dynamic On-Die Termination for data, strobe and mask signals
- Data bus inversion (DBI) for data bus
- Fixed burst chop (BC) of 4 and burst length (BL) of 8 via the MRS
- Selectable BC4 or BL8 on-the fly (OTF)
- Fly-By topology
- Terminated control, command and address bus
- RoHS and Halogen free

## Speed Grade

| Frequency Grade | Data Transfer Rate | CAS Latency Support |      |      |      |      |      |      |      |      |      |      |      | CL-tRCD-tRP |
|-----------------|--------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|-------------|
|                 |                    | CL11                | CL12 | CL13 | CL14 | CL15 | CL16 | CL17 | CL18 | CL19 | CL20 | CL21 | CL22 |             |
| DDR4-3200       | PC4-25600          | 1600                | 1600 | 1866 | 1866 | 2133 | 2133 | 2400 | 2400 | 2666 | 2666 | 2933 | 3200 | 22-22-22    |

## Package Dimensions

Unit: mm



Tolerances : ± 0.15mm unless otherwise specified