

# CIR-V4SESW2408G

DDR4 SO-DIMM 2400MHz 8GB with ECC

### Description

This specification defines the electrical and mechanical requirements for 260 pin, 1.2 V (VDD), Double Data Rate, Synchronous DRAM Dual In-Line Memory Modules (DDR4 SDRAM ECC SO-DIMM). This DDR4 ECC SO-DIMMs is intended for use as main memory when installed in PCs, laptops and other systems.

Reference design examples are included which provide an initial basis for DDR4 ECC SO-DIMM designs. Modifications to these reference designs may be required to meet all system timing, signal integrity and thermal requirements for DDR4-2400 support.

All DDR4 ECC SO-DIMM implementations must use simulations and lab verification to ensure proper timing requirement and signal integrity in the design.

Specifications					
Density	8GB				
Pin Count	260pin				
Туре	Unbuffered				
Dimensions	69.6mm x 30.0mm				
ECC	with ECC				
Component Config	1G x 8 bit				
Data Rate	2400 MHz				
CAS Latency	17				
Voltage	1.2V				
PCB Layers	8				
Operating Temp.(TCASE)	0°C~+85°C				
Module Ranks	Single Rank				

#### Features

- JEDEC Standard 260-pin Small-Outline Dual In-Line Memory Module
- VDD=VDDQ = 1.2V±0.06V (1.14V~1.26V)
- Programmable CAS Latency(posted CAS): 11,12,13,14,15,16,17
- Inputs and Outputs are SSTL-12 compatible
- Low-Power auto self-refresh (LPASR)
- DRAMs have 16 internal banks for concurrent operation (4 Bank Group of 4banks 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)
- ECC function support
- RoHS and Halogen free

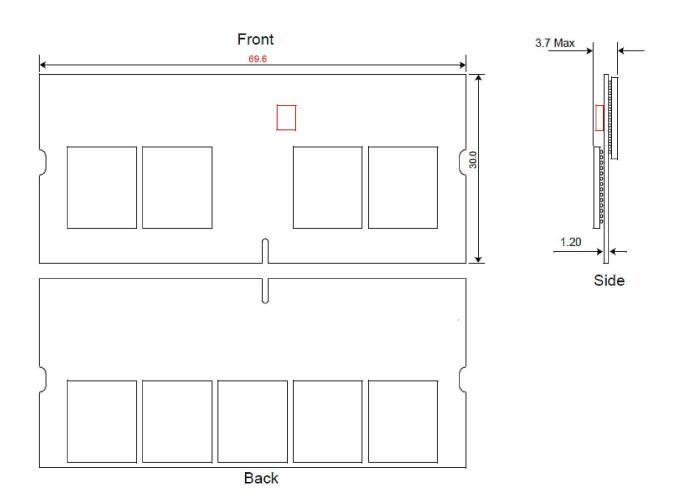


## **Speed Grade**

Frequency Grade	Data	CAS Latency Support							
	Transfer Rate	CL11	CL12	CL13	CL14	CL15	CL16	CL17	CL-tRCD-tRP
DDR4-2400	PC4-19200	1600	1600	1866	1866	2133	2133	2400	17-17-17

## Package Dimensions

Unit: mm



Tolerances : + 0.15mm unless otherwise specified