

CIR-W4SUSY2916G

DDR4 WIDE TEMP. SO-DIMM 2933MHz 16GB

Description	Specifications					
This specification defines the electrical and mechanical	Density	16GB				
requirements for 260 pin, 1.2 V (VDD), Double Data	Pin Count	260pin				
Rate, Synchronous DRAM Dual In-Line Memory Modules	Type	Unbuffered				
(DDR4 SDRAM SO-DIMM). This DDR4 SO-DIMM is	Dimensions	69.60mm x 30.00mm				
intended for use as main memory when installed in PCs,		-				
laptops and other systems.	ECC	Non-ECC				
Reference design examples are included which provide	Component Config	1G x 8 bit				
an initial basis for DDR4 SO-DIMM designs.	Data Rate	2933 MHz				
Modifications to these reference designs may be required	CAS Latency	21				
to meet all system timing, signal integrity and thermal	Voltage	1.2V				
requirements for DDR4-2933 support. All DDR4	PCB Layers	10				
SO-DIMM implementations must use simulations and lab	Operating Temp.(TCASE)	-40°C~+85°C Dual Rank				
verification to ensure proper timing requirement and	Module Ranks					
signal integrity in the design.						

Features

- JEDEC Standard 260-pin Dual In-Line Memory Module
- Inputs and Outputs are SSTL-12 compatible
- $VDD=VDDQ = 1.2V\pm0.06V$ (1.14V~1.26V)
- Programmable CAS Latency(posted CAS): 11,12,13,14,15,16,17,18,19,20,21
- Low-Power auto self-refresh (LPASR)
- SDRAMs have 16 internal 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

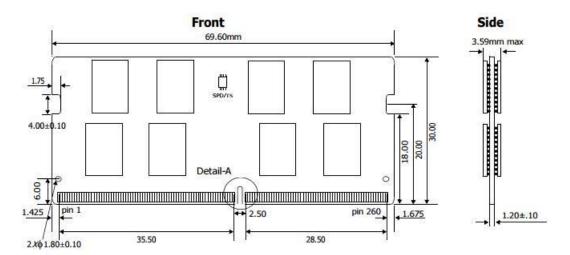


Speed Grade

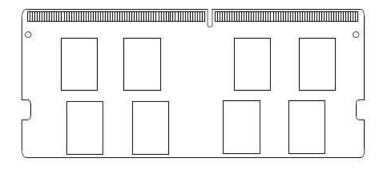
Frequency	Data	CAS Latency Support											
Grade Rate	CL11	CL12	CL13	CL14	CL15	CL16	CL17	CL18	CL19	CL20	CL21	CL-tRCD-tRP	
DDR4-2933	PC4-23466	1600	1600	1866	1866	2133	2133	2400	2400	2666	2666	2933	21-21-21

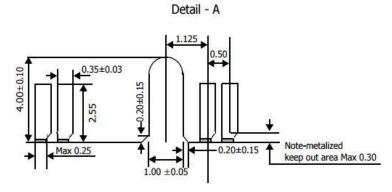
Package Dimensions

Unit: mm



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Tolerances: ± 0.15mm unless otherwise specified