

CIR-S1SUMD40512

DDR1 SO-DIMM 400MHz 512MB

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The CIR-S1SUMD40512 is 64M words X 64 bits,2 Ranks Double Data Rate (DDR) SDRAM Small outline dual in-line Memory module, mounted 8 pieces of 512M bits DDR SDRAM(32Mx16) sealed in TSOPII package.

Read and write operations are performed at the cross points of the CK and the / CK. This high-speed data transfer is realized by the 2 bits prefetch-pipelined architecture. Data strobe (DQS) both for read and write are available for high speed and reliable data bus design. By setting extended mode register, the on-chip Delay locked loop (DDL) can be set enable or disable.

Specifications		
Density	512MB	
Pin Count	200pin	
Туре	Unbuffered	
Dimensions	67.6mm x 31.75mm	
ECC	Non-ECC	
Component Config	32M x 16 bit	
Data Rate	400 MHz	
CAS Latency	3	
Voltage	2.6V	
PCB Layers	6	
Operating Temp.(TCASE)	0°C~+70°C	
Module Ranks	Dual Rank	

Features

- JEDEC Standard 200-pin small outline dual in line memory module (SO-DIMM.)
- 2.6V+/-0.1V VDD and VDDQ Power supply
- Data rate: 400 MHz (max)
- SSTL-2 interface
- Double Data Rate architecture; two data transfers per clock cycle.
- Bi-directional, data strobe (DQS) is transmitted / received with data, to be used in capturing data at the receiver.
- Data inputs, outputs and DM are Synchronized with DQS.
- DQS is edge aligned with data for READs; center aligned with data for WRITEs.
- Differential clock inputs (CK and /CK)
- DLL aligns DQ and DQS transitions with CK transitions
- Commands entered on each positive CK edge; data referenced to both edges of DQS
- Programmable burst length: 2,4,8
- Programmable /CAS latency (CL): 2.5 / 3
- Refresh cycles: (8192 refresh cycles /64ms)
- Serial Presence Detect with EEPROM
- All of Lead-Free products are compliant for RoHS

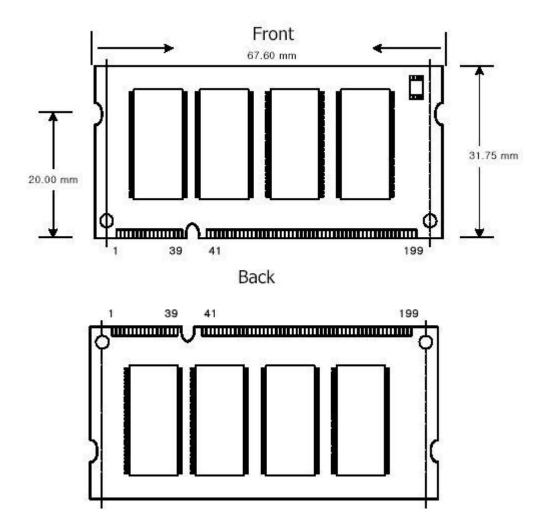


Speed Grade

Frequency	Data Transfer	CAS Latency Support		CL-tRCD-tRP
Grade	Rate	CL2.5	CL3	
DDR-400	PC-3200	266	333/400	3-3-3

Package Dimensions

Unit: mm



Tolerances : \pm 0.15mm unless otherwise specified