

SOSAM DDR4 UDIMM 8GB 3200

Datasheet Ver1.0

I.Product Basic Information

- Memory Type: PC4-25600 DDR4 SDRAM 288-pin UDIMM
- Memory Model: DDR4-PC-3200
- Memory Capacity: 8GB
- IC Model: DDR4-2Gb x4

II.Technical Specifications

2.1 Memory Parameters

Item	Specification
Part Number	KMD4U08GC1H232DC
Operating Timing	CL=23, 23-23-23-52
Memory Capacity	8GB
Chip Model	DDR4-2Gb x4
Chip Configuration	2Gb x4
Number of Chips	8
Operating Voltage	1.2V
SPD	Yes
XMP	No
PCB Model	K48UD-V

2.2 Environmental Requirements

Item	Specification
Operating Temperature	0 - 65 °C
Operating Humidity	Relative Humidity: 10% - 90%
Storage Temperature	-50 - 100 °C
Storage Humidity	Relative Humidity: 5% - 95%
Operating & Storage Air Pressure	69 - 105 KPa

2.3 SPD Description

SPD must comply with the requirements of JEDEC DDR4 standard.

2.4 PCB Board Performance Parameters

Item	Specification
PCB Material	FR-4
Finished Board Thickness	1.40±0.1 mm
Ni/Au Plating Thickness	Au: 2 – 3 μm; Ni: 120 – 140 μm;
Trace Width	0.075 mm
Trace Spacing	0.1 mm
Board Warpage & Twist	<0.75%
Solderability Test Standard	IPC-TM650
Solder Mask	Black, thickness ≥ 15 μm
Module Outline Dimension	133.35*31.24±0.15 mm
Impedance	Single-ended: 40/50/55 Ω±10%
	Differential: 70/83/93 Ω±15%
Number of Layers	8 Layers

2.5 Label Description

Label Type	Specification
PCB Board Label	PCB model printed on the board.
Memory Module Label	Includes memory capacity, frequency, and serial number

III.DRAM Chip Electrical Parameters

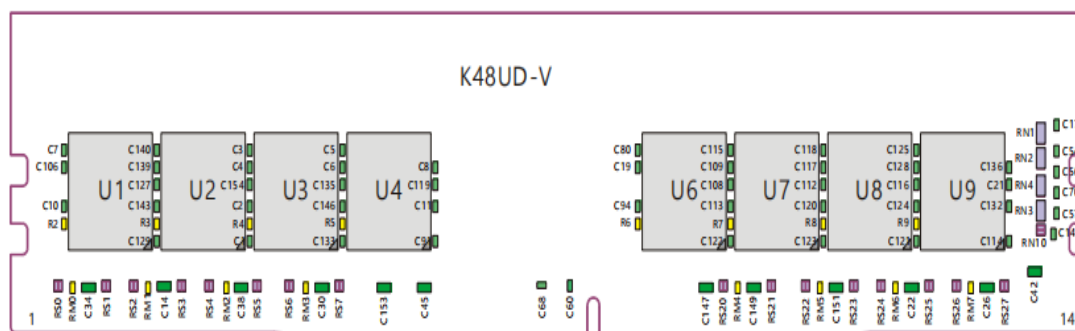
Electrical parameters shall comply with the SSTL-1.2 Class II standard.

Supply Voltage and DC Parameters are listed below.

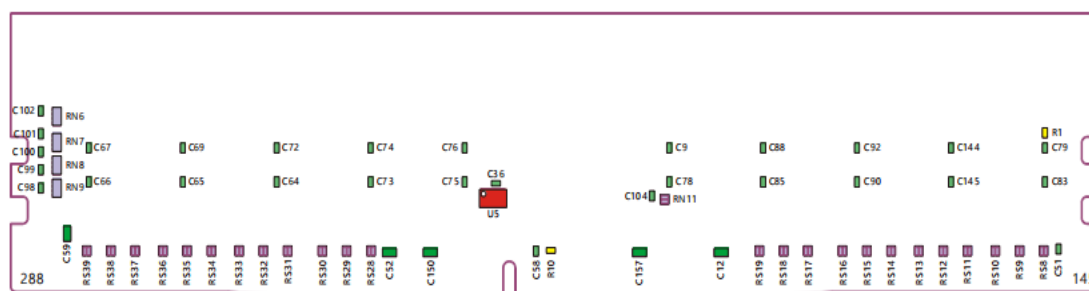
Parameter	Minimum Value (V)	Maximum Value (V)
VDD (Supply Voltage)	1.14	1.26
VDDQ (I/O Supply Voltage)	1.14	1.26
VREF (I/O Reference Voltage)	0.49*VDD	0.51*VDD
VTT (I/O Termination Voltage (System))	VREF-0.04	VREF+0.04

IV.Mechanical Dimensions

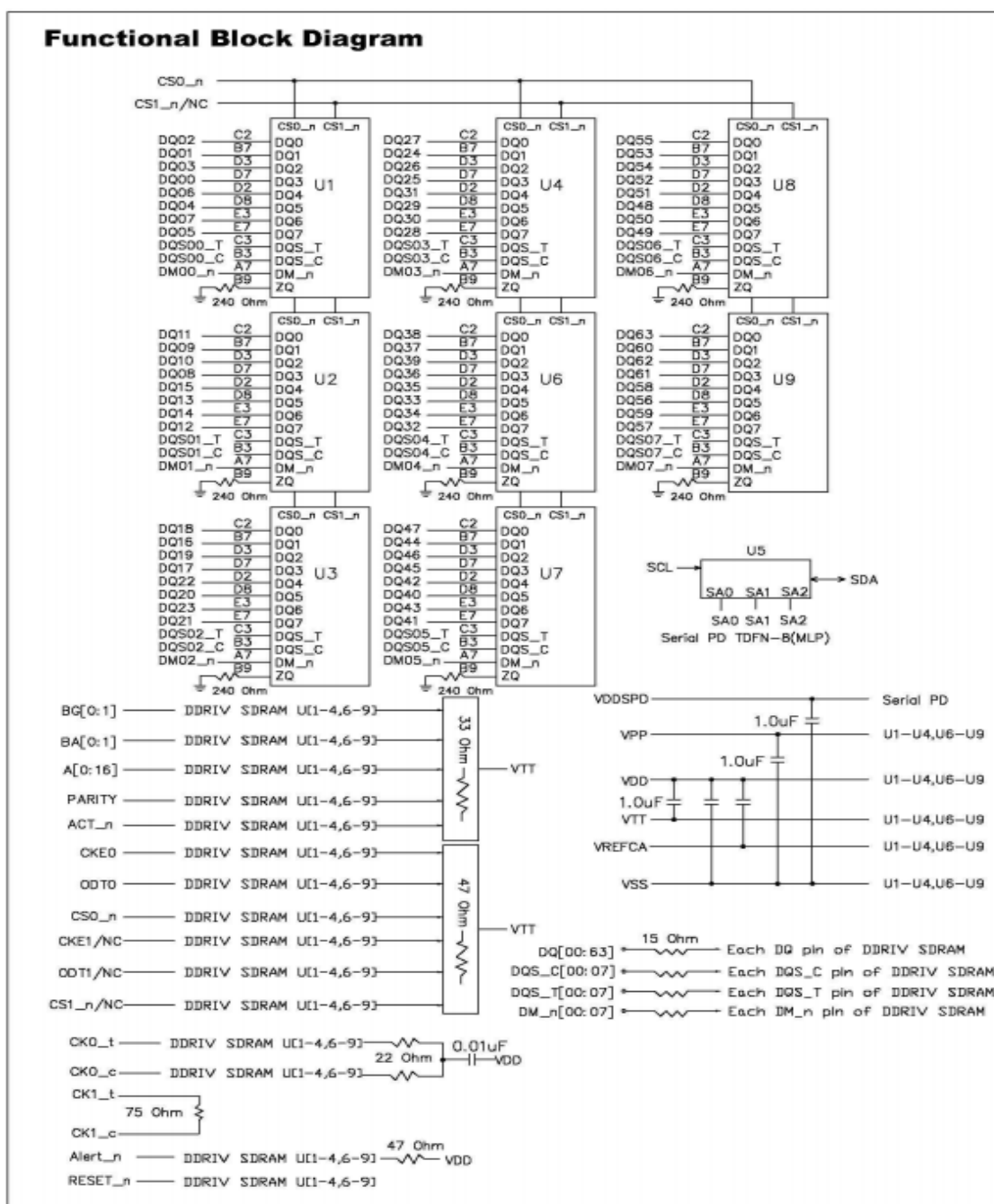
Front-side components diagram



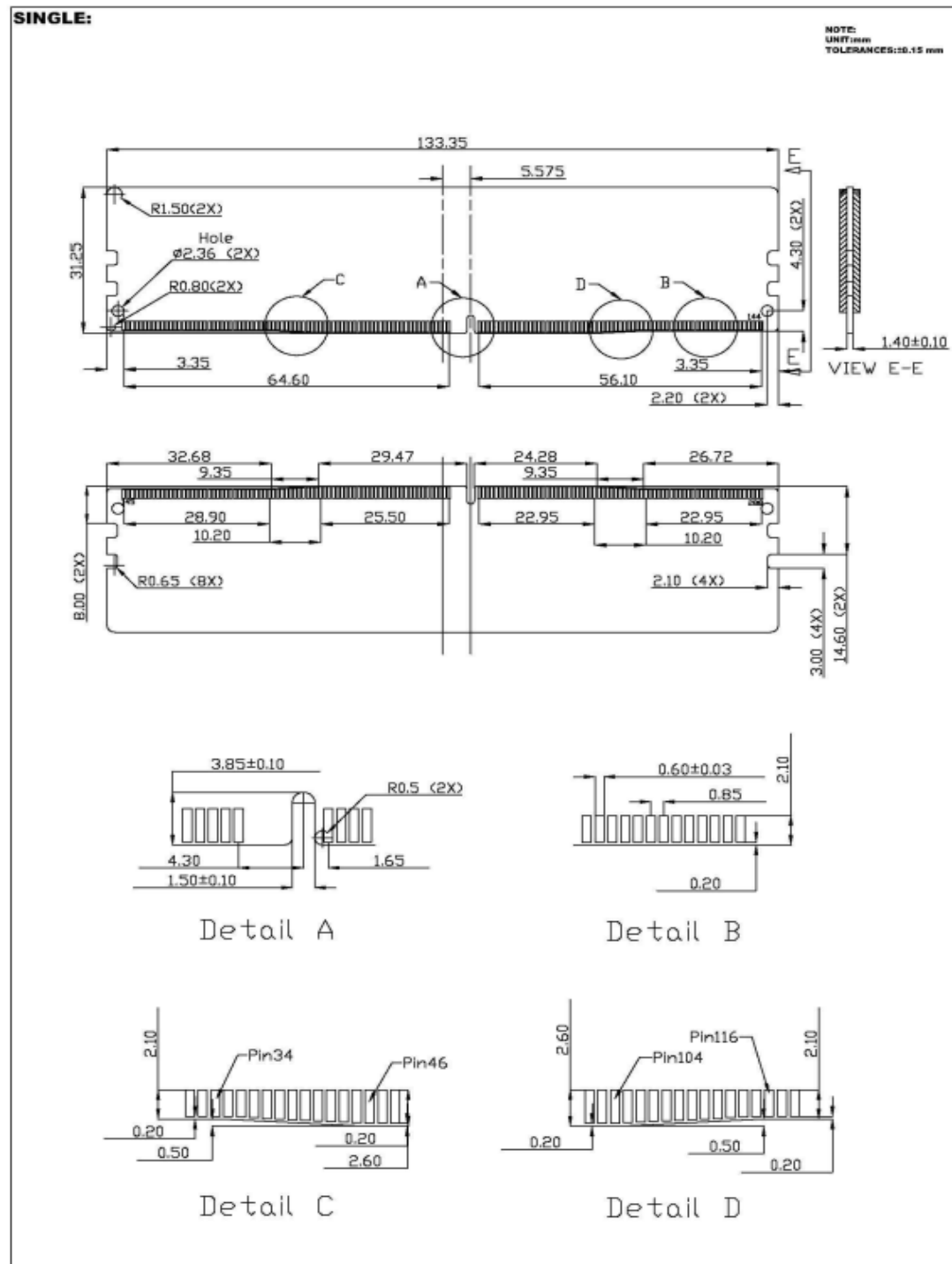
Back-side Components Diagram



V.Memory Functional Block Diagram



VI.PCB Outline Dimension Drawing



For More Information

For Technical Support:

If additional support is needed, please visit the SOSAM Web site at www.kumi2020.com

for the following topics:

- **Warranty Services:** Includes the warranty service policy and the RMA requestforms.
- **Technical Information:** Includes product data sheets and various USB whitepapers.
- **Tools Section:** Includes frequently asked questions (FAQs).