REGISTERED SDRAM DIMM MODULE, 3.3V
512MByte - 64MX72 ECC
AVE7264R38A3133E1

FEATURES

JEDEC PC133 Version 1.0

- Clock frequency: 66MHz to 133MHz with CAS latency 3
- Burst read / write and burst read / single write capability
- Data input and output masking
- Programmable burst length: 1, 2, 4, 8 and full page
- Programmable burst type: sequential and interleave
- Programmable CAS latency: 3
- Auto refresh and self refresh capability
- 8K refresh per 64ms
- 256 byte serial EEPROM
- LVTTL-compatible input and output
- Low active and standby current consumption
- Decoupling capacitors at each memory device
- Double-sided module
- 1.20 inch height
- Gold card edge fingers

DESCRIPTION

The AVE7264R38A3133E1 is a High Speed SDRAM DIMM memory module and is JEDEC PC133 SDRAM DIMM Version 1.0 compliant. The memory module is 512MByte and organized as 64MX72 ECC array using (18) 64MX4 (4 internal banks) SDRAMs in TSOP II packages.

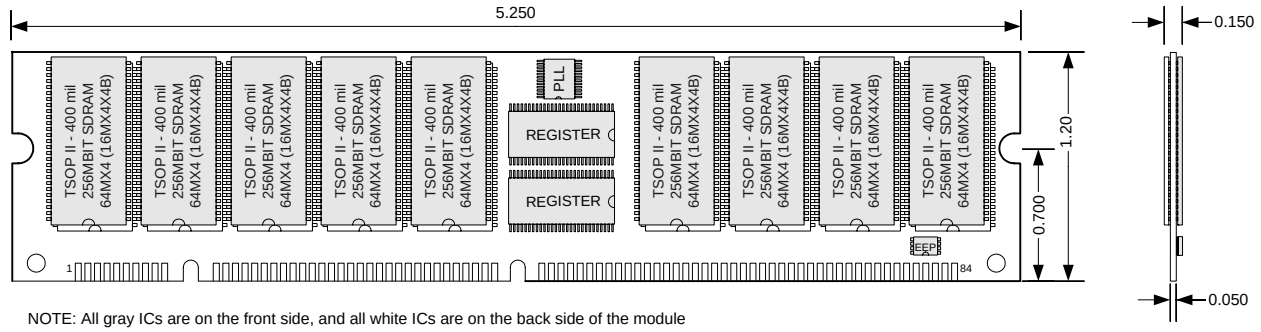
The AVE7264R38A3133E1 High Speed Synchronous design utilizes a Phase Lock Loop (PLL) to precisely synchronize the system clock and the SDRAM input clocks and to minimize system clock loading. The design also uses synchronous registers to buffer all the addresses and control signals to reduce the loading of the system address bus and control signals. The AVE7264R38A3133E1 by default always operates in Registered mode, but it can also operate in Buffered mode by driving REGE signal (pin 147) low.

The AVE7264R38A3133E1 memory module is designed to operate with a single 3.3V power supply and supports 66MHz to 133MHz clock with CAS latency of 3.

Each AVE7264R38A3133E1 memory module comes ready with a 256-byte serial EEPROM on board that is programmed with memory module information such as AC timing, configuration, density, etc.

The AVE7264R38A3133E1 memory module is fabricated using the latest technology, six-layer printed circuit board substrate construction with low ESR decoupling capacitors on-board for high reliability and low noise.

PHYSICAL DIMENSIONS



NOTE: All gray ICs are on the front side, and all white ICs are on the back side of the module

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Avant Ordering Guides

AV	E	72	64	R	38	A	3	133	E	1
INVENTORY	**MOD. TYPE**	**ORG.**	**DENSITY**	**PARITY**	**TYPE**	**VOLT.**	**FEATURE**	**SPEED**	**MODE**	**REV**
AV = AVANT	E = 168-PIN DIMM	72=X72	64=64M	R=REGISTERED	38=16Mx4x4 (8K)	A=3.3V	3=CAS LATENCY 3	133MHz	E=SYNC	REV=1

Other options may be available. Call for specific part number information on options not listed.

Avant™ Technology LP., reserves the right to change products or specifications without notice.

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