REGISTERED SDRAM DIMM MODULE, 3.3V
256MByte - 32MX72 ECC
AVE7232R39A2133E0

FEATURES

JEDEC PC133 Version 1.0

* Clock frequency: 66MHz to 133MHz with CAS latency 2 or 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: 2 or 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
* 1.175 inch height
* Gold card edge fingers

DESCRIPTION

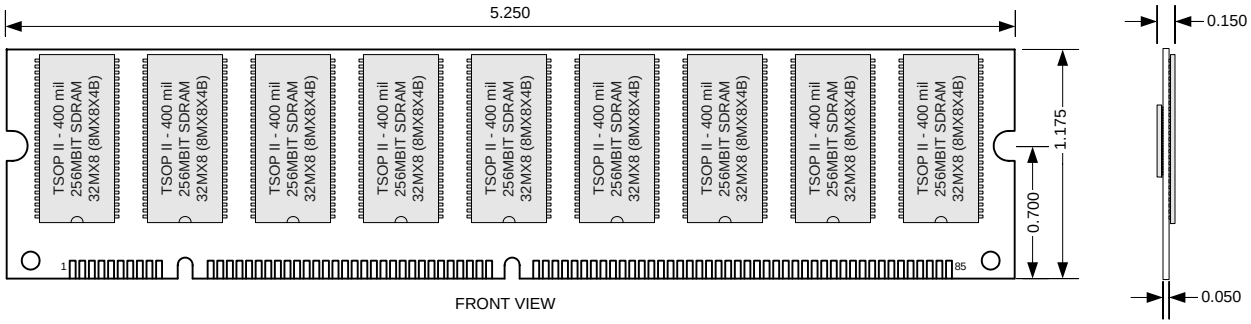
The AVE7232R39A2133E0 is a High Speed SDRAM DIMM memory module and is JEDEC PC133 SDRAM DIMM Version 1.0 compliant. The memory module is 256MByte and organized as 32MX72 ECC array using (9) 32MX8 (4 internal banks) SDRAMs in TSOP II package.

The AVE7232R39A2133E0 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 AVE7232R39A2133E0 by default always operates in Registered mode, but it can also operate in Buffered mode by driving REGE signal (pin 147) low.

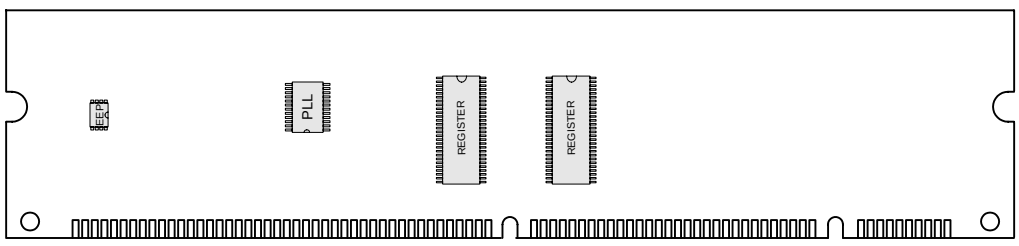
The AVE7232R39A2133E0 memory module is designed to operate with a single 3.3V power supply and supports 66MHz to 133MHz clock with CAS latency of 3. Each AVE7232R39A2133E0 memory module comes ready with a 256-byte serial EEPROM on board that is programmed with memory module information such as AC timing, configuration, density, etc.

The AVE7232R39A2133E0 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



FRONT VIEW



BACK VIEW

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Avant Ordering Guides

AV	E	72	32	R	39	A	2	133	E	0
INVENTORY	**MOD. TYPE**	**ORG.**	**DENSITY**	**PARITY**	**TYPE**	**VOLT.**	**FEATURE**	**SPEED**	**MODE**	**REV**
AV = AVANT	E = 168-PIN DIMM	72=X72	32 = 32M	R=REGISTERED	39=8Mx8x4 (8K)	A=3.3V	2 = CAS Latency 3	133MHz	E=SYNC	DEF=0

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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