

# **DVM21S1T8/4G**

## 4GB - 260-Pin 1Rx8 Unbuffered Non-ECC DDR4 SODIMM

#### Identification

**DVM21S1T8/4G** 512Mx64 4GB 1Rx8 PC4-2133P-S15

#### **Performance Range**

Clock / Module Speed / CL-t<sub>RCD</sub> -t<sub>RP</sub> 1067 MHz / PC4-2133 / 16-16-16 1067 MHz / PC4-2133 / 15-15-15 933 MHz / PC4-1866 / 14-14-14 933 MHz / PC4-1866 / 13-13-13 800 MHz / PC4-1600 / 12-12-12 800 MHz / PC4-1600 / 11-11-11-1667 MHz / PC4-1600 / 9-9-9



### **Features**

260-pin JEDEC-compliant DIMM, 69.60 mm wide by 30.00 mm high

Operating Voltage: VDD/VDDQ = 1.2V (1.14V to 1.26V)

VPP = 2.5V (2.375V to 2.75V) VDDSPD = 2.25V to 2.75V I/O Type: 1.2 V signaling

On-board I<sup>2</sup>C temperature sensor with integrated Serial Presence-Detect (SPD) EEPROM

Data Transfer Rate: 17.0 Gigabytes/sec Data Bursts: 8 and burst chop 4 mode

ZQ Calibration for Output Driver and On-Die Termination (ODT)

Programmable ODT / Dynamic ODT during Writes

Programmable CAS Latency: 9, 10, 11, 12, 13, 14, 15 and 16

Bi-directional Differential Data Strobe signals Per DRAM Addressability is supported Write CRC is supported at all speed grades DBI (Data Bus Inversion) is supported(x8 only)

CA parity (Command/Address Parity) mode is supported

16 internal banks

SDRAM Addressing (Row/Col/BG/BA): 15/10/2/2

Fully RoHS Compliant

# Description

**DVM21S1T8/4G** is an Unbuffered 512Mx64 small –outline memory module, which conforms to JEDEC's DDR4-2133, PC4-2133 standard. The assembly is Single-Rank, comprised eight 512Mbx8 DDR4-2133 SDRAMs.

One EEPROM is used for Serial Presence Detect and a combination register/PLL, with Address and Command Parity, is also used.

Both output driver strength and input termination impedance are programmable to maintain signal integrity on the I/O signals in a Fly-by topology.

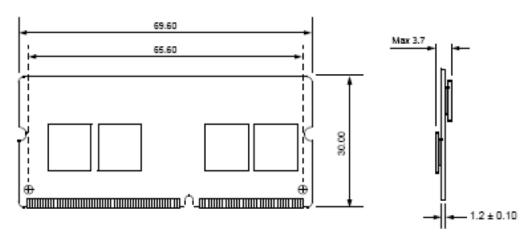
A thermal sensor accurately monitors the DIMM module and can prevent exceeding the maximum operating temperature of 95C.

## Notes

Tolerances on all dimensions except where otherwise indicated are ±.13 (.005).

All dimensions are expressed in millimeters [inches]

Units : Millimeters



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