

## Identification

**DVM24R2T8/8G** 1Gx72  
8GB 2Rx8 PC4-2400T-R15

## Performance Range

Clock / Module Speed / CL-t<sub>RCD</sub>-t<sub>RP</sub>  
1200 MHz / PC4-2400 / 18-18-18  
1200 MHz / PC4-2400 / 17-17-17  
1067MHz / PC4-2133 / 16-16-16  
1067MHz / PC4-2133 / 15-15-15  
933 Hz / PC4-1866 / 14-14-14  
933 Hz / PC4-1866 / 13-13-13  
800 Hz / PC4-1600 / 12-12-12  
800 Hz / PC4-1600 / 11-11-11  
667 MHz / PC4-1600 / 10-10-10



## Features

288-pin JEDEC-compliant DIMM, 133.35 mm wide by 31.25 mm high  
Operating Voltage: VDD/VDDQ = 1.2V (1.14V to 1.26V)  
Operating Temperature (Environment, Ambient T<sub>OPR</sub>) – 0 to 65 C  
Operating Temperature (DRAM T<sub>OPER</sub>) – 0 to 85 C  
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: 19.2 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: 10, 11, 12, 13, 14, 15, 16, 17 and 18  
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  
Supports ECC error correction and detection  
16 internal banks  
SDRAM Addressing (Row/Col/BG/BA): 15/10/2/2  
Fully RoHS Compliant

## Description

**DVM24R2T8/8G** is a registered 1Gx72 memory module, which conforms to JEDEC's DDR4-2400, PC4-2400 standard. The assembly is Dual-Rank. Each rank is comprised of nine 512Mbx8 DDR4-2400 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]

Comforms to MO-309C

