DTI24S1T8W/4G

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

Identification
DTI24S1T8W/4G 512Mx64
4GB 1Rx8 PC4-2400T-S17 WT

Performance Range

Clock / Module Speed / CL-t_{RCD} –t_{RP}
1200 MHz / PC4-2400 / 18-18-18
1200 MHz / PC4-2400 / 17-17-17
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
667 MHz / PC4-1600 / 10-10-10

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
Operating Temperature Range (-40°C~95°C)
- tREFI 7.8us at -40 °C ≤ TCASE ≤ 85°C
- tREFI 3.9us at 85 °C < TCASE ≤ 95°C

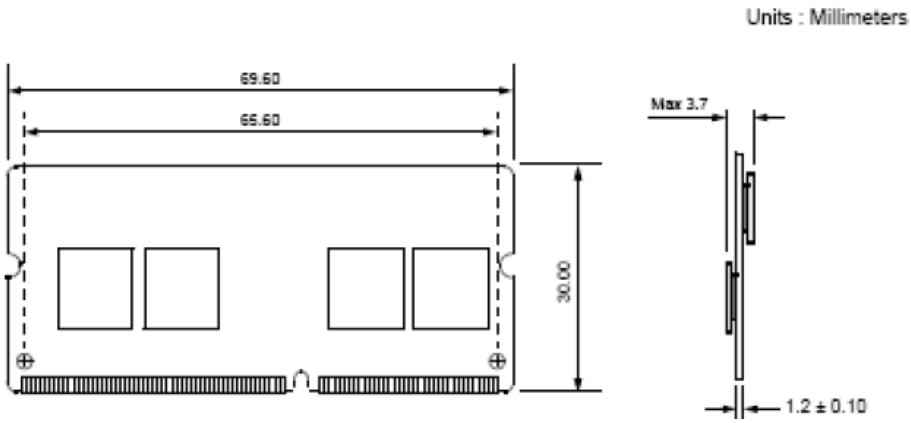
On-board I^2C Serial Presence-Detect (SPD) EEPROM
Data Transfer Rate: 19.2 Gigabytes/sec
Data Bursts: 8 and burst chop 4 mode
ZQ Calibration for Output Driver and On-Die Termination (ODT)
Programmable ODT / Dynamic ODT during Writes
Programmable CAS Latency: 10, 11, 12, 13, 14, 15, 16, 17 and 18
Bi-directional 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
16 internal banks
SDRAM Addressing (Row/Col/BG/BA): 15/10/2/2
Fully RoHS Compliant

Description

DTI24S1T8W/4G is an Unbuffered 512Mx64 small –outline memory module, which conforms to JEDEC's DDR4-2400T, PC4-2400T standard. The assembly is Single-Rank, comprised of eight 512Mbx8 DDR4-2400T Industrial Temp SDRAMs.

One EEPROM is used for Serial Presence Detect.

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



Notes

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

All dimensions are expressed in millimeters [inches]

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