

1.35V DDR3 SDRAM SODIMM

CT25664BF
CT51264BF
CT102464BF

Features

- DDR3 functionality and operations supported as defined in the component data sheet
- 204-pin, small outline dual in-line memory module (SODIMM)
- Fast data transfer rates: PC3-12800, or PC3-10600
- 2GB (256 Meg x 64), 4GB (512 Meg x 64), and 8GB (1024 Meg x 64)
- VDD = 1.35V (1.283V to 1.45V)
- Backward compatible to VDD = +1.5V $\pm$ 0.075V
- VDDSPD = +3.0V to +3.6V
- Nominal and dynamic on-die termination (ODT) for data, strobe, and mask signals
- On-board I2C temperature sensor with integrated serial presence-detect (SPD) EEPROM
- Fixed burst chop (BC) of 4 and burst length (BL) of 8
- via the mode register set (MRS)
- Selectable BC4 or BL8 on-the-fly (OTF)
- Halogen-free
- Fly-by topology
- Terminated control, command, and address bus

- Serial Presence-Detect (SPD) EEPROM
- Gold edge contacts
- RoHS compliant
- 1.18" (30.00mm) PCB Height
- TAA compliant parts available upon request

Timing Parameters

Module Marking	Module Bandwidth	Latency (CL - ^t RCD - ^t RP)
160B	12.8 GB/s	11 - 11 - 11
1339	10.6 GB/s	9 - 9 - 9

Part Numbers

Part Number*	Module Density	Memory Clock/ Data Bit Rate	Banking Configuration	Component Configuration
CT25664BF160B	2GB	1.25ns/1600 MT/s	Single	256 Meg x 8
CT25664BF1339	2GB	1.5ns/1333 MT/s	Single	256 Meg x 8
CT51264BF160B	4GB	1.25ns/1600 MT/s	Single	512 Meg x 8
CT51264BF1339	4GB	1.5ns/1333 MT/s	Single	512 Meg x 8
CT102464BF160B	8GB	1.25ns/1600 MT/s	Dual	512 Meg x 8
CT102464BF1339	8GB	1.5ns/1333 MT/s	Dual	512 Meg x 8

Note: Each part number listed in this data sheet may be available in multiple configurations. While configurations for any given part number may vary, they will all be compatible and will not have a PCB height greater than 1.18".

* TAA compliant parts will have a "T" at the end of the listed part number (i.e. CT25672BF1339T)