

Technical Datasheet

takeMS BD2048TEC860

Description

These Memory devices are JEDEC standard registered DIMM modules, based on CMOS DDR SDRAM technology.

These devices consist of CMOS DDR SDRAMs in TSOP or FBGA packages on a 184-pin glass epoxy substrate. The memory array is designed with Double Data Rate (DDR) Synchronous DRAMs for server applications.

The pipelined, multibanked architecture of DDR SDRAMs allows for concurrent operation, thereby providing high, effective bandwidth. Decoupling capacitors are mounted on the PCB board in parallel for each DDR SDRAM, which provides proper voltage supply impedance over the whole frequency range of operations, in accordance with JEDEC specifications. These modules feature Serial Presence Detect (SPD) based on a serial EEPROM device.

Features

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|------------------------------------------------------------------|
| 184-pin registered DDR SDRAM |
| JEDEC Standard 184pin DIMM 2.5V +/- 0.2V VDD & VDDQ Power supply |
| Auto Refresh (CBR) and Self Refresh Mode |
| Programmable Burst Length |
| Fully differential clock operations |
| Serial Presence Detect (SPD) with EEPROM |
| Module layout is based on JEDEC standard routing guidelines |
| Impedance controlled 6-layer PCB Technology |
| JEDEC standard form factor |
| Internal four bank operations |
| single pulsed data for write RAS |
| Operating Temperature 0°C ~ 75°C |



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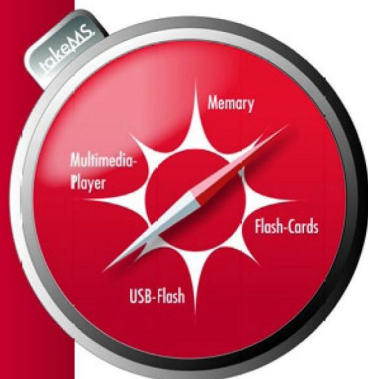
Technical details

- 2048 MB longdimmm module
- 128Mx4 IC organisation
- x72 module organisation
- 400MHz / PC 3200
- double sided / 32 ICs (+ECC and register)
- CAS Latency 3 at max. memclock

For pin configuration please check www.takems.com/support/index.php

If you have any questions regarding our products you can contact us via email: info@takems.com

Order-No.: **BD2048TEC860**



Web: www.takems.com

E-Mail: info@takems.com

Tel: +49-7667-9414-0

Fax: +49-7667-9414-444