RAMCHECK® DDR2

Low-Cost Test Adapter For DDR2 Modules

The RAMCHECK DDR2 Adapter (p/n INN-8668-15) is the latest advanced memory test adapter for RAMCHECK LX and RAMCHECK. The DDR2 adapter tests 240-pin PC2-6400, PC2-5300, PC2-4300 and PC2-3200 unbuffered and registered DDR2 memory modules complying with JEDEC standards. (RAMCHECK LX or RAMCHECK base unit required.)

RAMCHECK DDR2 Adapter Specifications

Basic Test
- Identifies module type, size, configuration, voltage and frequency
- Checks open/short, addressing and identifies defective bits

Extensive Test
- Voltage Cycling, Voltage Bounce
- March Up/Down
- Special DDR2 Tests
- Temperature Stress Test

Auto-Loop Test
- Module is endlessly tested with different pattern bits
- Detects pattern sensitivity problems
- Excellent for burn-in procedure

Test Frequencies
- Test DDR2 modules at 866MHz, 800MHz, 667MHz, 600MHz, 533MHz, 466MHz, 400MHz and 366MHz.
- Test frequencies automatically selected by the current test flow. Selected frequency can be optionally changed interactively by the user.
- Internal engine self test diagnostic reaches 1066MHz.

DDR2 Test Parameters
- Trcd setup of 2, 3, 4, or 5.
- CAS Latency (CL) setup of 2, 3, 4, 5, 6. (Note: Not all modules support CL=2 and 6.)
- Additive Latency (AL) setup of 0, 1, 2, 3, 4.
- Write Recovery (WR) of 2, 4, 5, 6.
- OCD control of None, 50ohm, 75ohm, and optional 150ohm.
- Burst Length of 4 or 8.

Addressing Capability
- 16 Rows and 12 Columns addressing for 4GB modules. Test support added as larger modules are introduced to the market.

VDD Setup
- Uses digitally controlled state-of-the-art switching power supply for Vdd range of 1.45V to 2.2V.
- Voltage automatically defaults based on frequency to 1.8V-1.9V.
- User has interactive control of the wider range.

Data Bus Width
- x64 to x72 bits (Parity/ECC).

SPD Programming
- Edit/program/save SPD data, unlimited SPD files
- Production Mode for automated SPD programming
- Convenient SPD Wizard

RAMCHECK DDR2 Key Features

- Tests and identifies 240-pin PC2-6400/5300/4300/3200 DDR2 modules at true clock speed.
- Supports Registered, Unbuffered and ECC DDR2 modules up to 4GB+.
- Reliable and affordable, very simple to operate – the module's size, speed and structure are automatically detected by the tester. No need for user setup.
- Rugged test socket for heavy use.
- Very fast. Test a 1GB DDR2 DIMM in less than one minute (Basic test).
- Supports SPD programming.
- Automatic and user controlled test parameters of Trcd, CAS Latency (CL), Additive Latency (AL), Write Recovery (WR), OCD and more.
- Upgrade with free firmware upgrades available online.
- Includes powerful SPD Wizard for programming, editing saving SPD files.

General Specifications

Upgrades
Free firmware and PC software upgrades via the Internet.
Optional DDR2 converter/adapters are under development for a wide range of DDR2 memory formats.

Test Socket
Yamaichi 240-pin test socket, with rugged latches for easy insertion and removal of the modules.

Operating Temp/Humidity
3C to 32C (40 F to 90 degrees F), 20% - 80% non-condensing

Dimension/Weight
7" x 2.6" x 2.1" (W x L x H)/2 lbs (4 lbs shipping weight)

NOTE: These dimensions do not include the RAMCHECK base tester on which this adapter must be mounted.

Warranty
1-year limited warranty

Part number: INN-8668-15

Product operation and specifications are subject to change without prior notice.