



Affordable Testing For High-Speed DDR1/DDR2

With optional adapters, RAMCHECK will test and identify 240-pin DDR2 modules, 184-pin DDR1, as well as older 168-pin SDRAM/EDO/FPM DIMMs. Fully expandable, RAMCHECK also has optional adapters for testing 200-pin and 144-pin SODIMM modules, chips and more. Its compact, modular design includes a powerful high-frequency test engine and industry-proven test algorithms. Add it all up and RAMCHECK memory tester gives you the power to perform superior memory testing at a very affordable price.

RAMCHECK Features

- With DDR2 adapter, tests and identifies 240-pin PC2-5400/4200/3200 DDR2. (Also tests and identifies PC2-6400 modules, but at 667MHz.)
- With DDR1 adapter, tests and identifies 184-pin PC466MHz/433MHz/400MHz/333MHz/266MHz/200MHz DDR1.
- Tests and identifies 168-pin SDRAM, including PC150/133/100/66, EDO & FPM (with SDRAM support option).
- Very simple to operate.
- Supports all Registered, Unbuffered, ECC and non-ECC Parity DIMM modules, 4GB+.
- Rugged, high-quality test sockets manufactured specifically for high-volume usage.
- Very simple to operate, and very fast. Basic test for a 512MB DDR DIMM takes less than 11 seconds.
- Connect to a PC to print and log test results, or operate as a standalone unit. PC software interface included.
- Includes large backlit LCD with four line display.
- Free firmware upgrades available online.
- Optional adapters available for testing for SODIMMs, SIMMs, chips.
- Includes powerful SPD Wizard for programming, storing and editing SPD files.

General Specifications

Error Display

- 128 x 32 pixel LCD (reflective) with LED backlighting and 6 o'clock view direction, red/green LED indicators, status tones.

Upgrades

- Free firmware and PC software upgrades via the Internet.
- Optional adapters for a wide range of memory formats.

Test Socket

- Yamaichi high-quality test sockets, with rugged latches for easy insertion and removal of the modules.

Operating Temp/Humidity

- 40 F to 90 F (4.4 C to 32.2 C), 20% - 80% non-condensing.

Power Requirement

- 100-250VAC/47-63Hz. A Universal Switching Power Supply for 7V/4Amp is included.

Dimension/Weight (example for RAMCHECK DDR2)

- 9.5" x 6.5" x 3.5" (W x L x H)/4 lbs (11 lbs shipping weight)
- 24.5cm x 16.5cm x 9cm (W x L x H)/1.8kg (5kg shipping weight)

Carrying Case, Printed Manual, PC Software Interface

- Included

Warranty

- 1-year limited warranty

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

Technical Specifications

Basic Test

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

Extensive Test

Auto-Loop Test

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

Addressing Capability

- Maximum 16 Row/16 Columns for a maximum 4G addresses.
- Tests up to 4GB modules.

Clock Frequency

- DDR2 clock to 667MHz, 533MHz, 400MHz and 366MHz.
- DDR1 clock 466MHz, 433MHz, 400MHz, 333MHz, 266MHz, 200 MHz.
- SDRAM clock 184MHz, 175MHz, 166MHz, 150MHz, 133MHz, 100MHz, 66MHz.

Data Bus Width

- x64 to x72 bits (Parity/ECC). With optional adapters: x1, x4, x8, x16, x32, x36 and x40.

Timing Range: 0-155.5nS

Timing Resolution: 0.25nS to 0.5nS

Programmable Parameters

- | | |
|-----------|------------|
| ▪ Size | ▪ Patterns |
| ▪ Timing | ▪ Refresh |
| ▪ Voltage | ▪ Mode |

SPD Programming

- Edit/program/save SPD data, unlimited SPD files.
- Production Mode for automated SPD programming.