

RAMCHECK®

Affordable Testing For High-Speed DDR1/DDR2/DDR3



With optional adapters, RAMCHECK will test and identify 240-pin DDR3 and 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 DDR3 adapter, tests and identifies 240-pin PC3-6400/8500/10600 DDR3. (LR-DIMM requires current RAMCHECK LX tester.)
- With DDR2 adapter, tests and identifies 240-pin PC2-6400/5400/4200/3200 DDR2. (Does not test Fully Buffered FB-DIMM.)
- 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, 16 GB+.
- 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

- Voltage Cycling
- Voltage Bounce
- March Up/Down
- Relative Refresh/Cell Leakage
- Relative Voltage Spikes
- Temperature Stress 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

- DDR3 clock to 1333MHz, functional tests at 800MHz and 1066MHz, compatible with higher speed DDR3 modules.
- DDR2 clock to 1066MHz, functional tests to 866MHz.
- DDR1 clock 533MHz, functional tests up to 533MHz.
- 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
- Timing
- Voltage
- Patterns
- Refresh
- Mode

SPD Programming

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



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How to Order INNOVENTIONS Products

Methods of Payment

Credit Card	MasterCard, Visa and PayPal, US and Canada only, please.
Purchase Order	<p>Net 30 terms are offered to publicly-traded companies, schools, and government agencies in the US and Canada. A written purchase order is required. Payment from Canadian firms must be completed in US dollars drawn on a US bank.</p> <p>Private companies must complete and return our standard credit application. Please contact us for details.</p>
COD	Company check or cashier's check, US only.
Leasing and Trade-Ins	We will be pleased to work with your existing leasing company. If you have older memory test equipment, please contact us about special trade-in offers.
International Orders	All international transactions are conducted via T/T bank wire transfer only. Please contact us for banking details.

Limited 1-Year Warranty

INNOVENTIONS products are warranted in entirety against any defects of material or workmanship which may develop for any reason whatsoever, except abuse and normal tear and wear of external test sockets, for a period of ONE YEAR following the date of original purchase. If your RAMCHECK should become defective within the warranty period, we will repair it or elect to replace it free of charge. Customer is responsible for shipping charges.

30-Day Guarantee

We stand behind the quality of our products. INNOVENTIONS provides a limited 30-day money-back guarantee (from date of invoice, US and Canada only) on RAMCHECK and SIMCHECK II test equipment.

Customer Support

Support is available via telephone, e-mail and online documentation at no charge. Extensive help manuals are also provided with all testers. Please see the Technical Support section on our website for further details.

Note: INNOVENTIONS reserves the right to change its Guarantee and Support policies.



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