

RAMCHECK® LX

Affordable Testing For High-Speed DDR3/DDR2/DDR1/SDRAM



With optional adapters, RAMCHECK LX will test and identify 240-pin DDR3 (including LR-DIMM) and DDR2 modules, 184-pin DDR1, as well as older 168-pin SDRAM/EDO /FPM DIMMs. Fully expandable, RAMCHECK LX also has optional adapters for testing 204-pin, 200-pin and 144-pin SODIMM modules, chips and more, even legacy EDO/FPM. Its compact, modular design includes a powerful high-frequency test engine, large, vivid display, industry-proven test algorithms and USB interface. Add it all up and RAMCHECK LX gives you the power to perform superior memory testing at a very affordable price.

RAMCHECK LX Features

- With DDR3 adapter, tests and identifies 240-pin PC3-6400/8500/10600 DDR3, including load-reduced DIMMs (LR-DIMM).
- 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.
- With DIMMCHECK 168 adapter it tests and identifies 168-pin SDRAM, including PC150/133/100/66, plus legacy EDO/FPM.
- Very simple to operate.
- Supports all Registered, Unbuffered, ECC and non-ECC Parity DIMM modules, up to 32GB.
- 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 via USB interface to print and log test results, or operate as a standalone unit. PC software interface included.
- Large, vivid display. LED's placed on front and side for viewing test status from multiple angles.
- Free firmware upgrades available online.
- Optional adapters are available for testing for SODIMMs, MiniDIMMs, SIMMs, chips and more.
- Includes a powerful SPD Wizard for programming and editing SPD files.

General Specifications

Display

- 128 x 64 pixel LCD (F-STN/Black & White mode, Transflective) with LED backlighting and 6 o'clock view direction. Multiple LED indicators and status tones.

Test Socket

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

Upgrades

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

Operating Temp/Humidity

- 40 degrees F to 90 degrees F, 20% - 80% non-condensing.

Power Requirement

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

Dimension/Weight

- 9.5" x 6.5" x 3.5" (W x L x H)/4 lbs (11 lbs shipping weight)

Carrying Case, Printed Manual, PC Software Interface, USB Cable

- Included

- 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. Also displays the operating temperature of DDR3 devices that have a temperature sensor.
- Checks open/short, addressing and identifies defective bits.

Extensive Test

- Voltage Cycling
- Multi-Burst Test
- Voltage Bounce
- March Up/Down
- CAS Latency
- Additive Latency
- Relative Refresh/Cell Leakage
- Relative Voltage Spikes
- Temperature Stress Test
- Trcd functionality
- Rtt On-Die-Termination
- Write Leveling

Auto-Loop Test

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

Addressing Capability

- Base tester - maximum 16 Row/16 Columns for a maximum 4G addresses. Adapter support current technology sizes.
- Tests up to 32GB 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 up to 866MHz.
- DDR1 clock to 533MHz, functional tests up to 533MHz.
- SDRAM clock 184MHz, functional test up to 166MHz.

Legacy EDO/FPM DRAM Timing Range: 0-155.5nS

Timing Resolution: 0.25nS to 0.5nS

Data Bus Width

- x64 to x72 bits (Parity/ECC). With optional adapters:
x144, x72, x64, x40, x36, x32, x16, x8, x4, x1

Programmable Parameters

- Size
- Timing
- Voltage
- Patterns
- Refresh
- Mode

SPD Programming

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



www.memorytesters.com

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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	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. Private companies must complete and return our standard credit application. Please contact us for details.
COD	Company check or cashier's check, US only.
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.

Terms and Conditions of Sale

For a complete description of INNOVENTIONS sales terms and conditions, please visit our website:
http://www.innoventions.com/terms_of_sales.htm



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