

# RAMCHECK® LX

## Affordable Testing For High-Speed DDR1/DDR2

With optional adapters, RAMCHECK LX will test and identify 240-pin 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 200-pin and 144-pin SODIMM modules, chips and more. 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 DDR2 adapter, tests and identifies 240-pin PC2-6400/5400/4200/3200 DDR2. With DDR1 adapter, tests and identifies 184-pin PC466MHz/433MHz/400MHz/333MHz/ 266MHz/200MHz DDR1.
- 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 EDO & FPM.
- Very simple to operate.
- Supports all Registered, Unbuffered, ECC and non-ECC Parity DIMM modules, up to 8GB.
- 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.
- 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 addresses.
- Tests up to 8GB modules.

#### Clock Frequency

- DDR2 clock to 866MHz, 800MHz, 667MHz, 533MHz, 400MHz.
- DDR1 clock 466MHz, 433MHz, 400MHz, 333MHz, 266MHz, 200MHz.
- SDRAM clock 184MHz, 175MHz, 166MHz, 150MHz, 133MHz, 100MHz, 66MHz.

#### 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.innoventions.com](http://www.innoventions.com)  
10425 Bissonnet St., Houston, TX 77099 USA  
Telephone: 1 (281) 879-6226 Fax: 1 (281) 879-6415  
E-mail: [sales@innoventions.com](mailto:sales@innoventions.com)

# How to Order INNOVENTIONS Products

## ***Methods of Payment***

<b>Credit Card</b>	MasterCard or Visa, US and Canada only, please.
<b>Purchase Order</b>	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.
<b>COD</b>	Company check or cashier's check, US only.
<b>International Orders</b>	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/RAMCHECK LX 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 RAMCHECK LX test equipment. Equipment and packaging must be returned in original condition. Items displaying wear and tear are subject to 10% restocking fee. If you are working on a short-term project please contact us about memory tester rentals.

## ***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](http://www.innoventions.com/terms_of_sales.htm)



**www.innoventions.com**  
10425 Bissonnet St., Houston, TX 77099 USA  
Telephone: 1 (281) 879-6226 Fax: 1 (281) 879-6415  
sales@innoventions.com