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.
- 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 32 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 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 9V/4.4A-5.0A 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 32 GB 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.