

For memory semiconductor



Nonvolatile memory evaluation system

Model: RBM-LCT

Reference → Semiconductor <http://www.espec.co.jp/english/products/market/it/semicon.html>



It is a Monitored Burn-In system to evaluate **nonvolatile memories such as flash memories** and FeRAM.

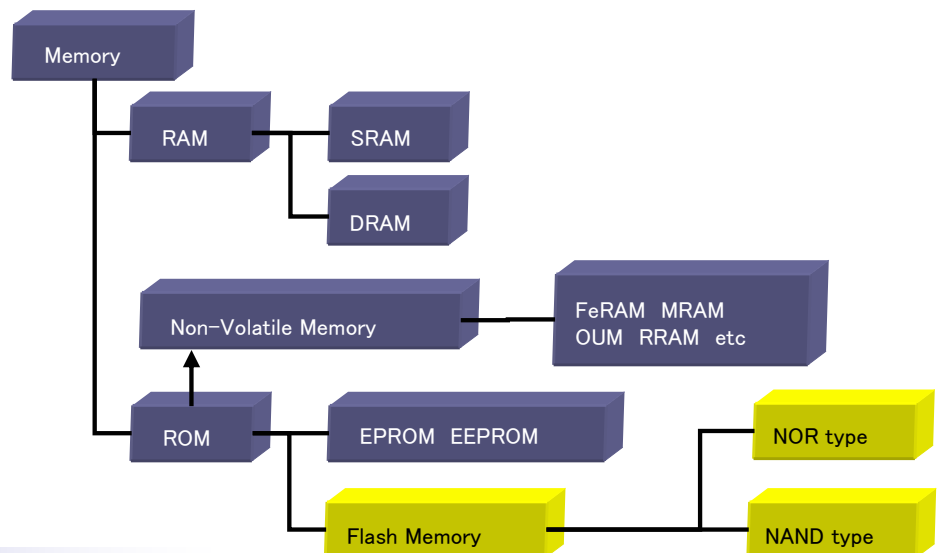
Test capability of expensive Tester can be replaced by this system with the pattern generator function that has a complex algorithm, the bud block management function, and the Vth distribution measurement function for the flash memory. The expandability and flexibility can be assumed to be a concept for the future devices and it can be used in the research and development, inspection station and mass production.

Target device

Flash memory is nonvolatile semiconductor memory where it is rewritable, and data won't be erased even with the power off. There are NAND type and NOR type, and the demand for the flash memory of the NAND type has expanded rapidly by the spread of the portable music player. (Photograph: Toshiba NAND type flash memory made with 43nm process.)



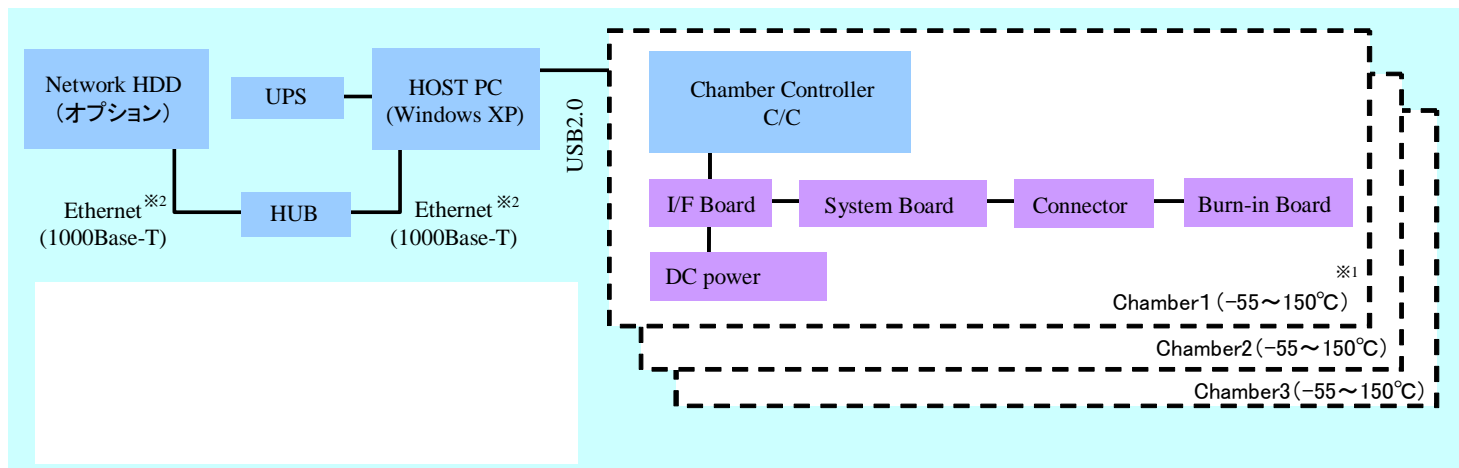
NAND type flash memory



Features

- The erase/write cycle of the flash memory can be processed at in large quantities and high speed.
- It is suitable to the block management of the NAND type flash memory.
- It equipped with flexible pattern generator (ALPG).
- It comes with multi type temperature chamber to provide multi temperature test at the same time.

system block chart



Specification

	Model	RBM-LCT-1212-m23UUU	RBM-LCT-1212-m23HUU	RBM-LCT-PST01
Chamber	Variation	High/Low Temp. Chamber × 3	High Temp. Chamber × 1 High/Low Temp. Chamber × 2	Chamber less
	Operating temperature	-55°C ~ 150°C	High Temp. Chamber +70°C ~ 150°C High/Low Temp. Chamber -55°C ~ 150°C	Ambient Temp. (Test Only)
	Slot	12	12	1
	Zone	12	12	1
System performance /Timing generator	Cycle time / Resolution	100nS~0.6mS / 10nS		
	Timing number	30		
	Clock frequency	16		
	Strobe	2		
	Clock resolution	10nS		
DUT Power	PS1、PS2	0.8V~8.0V / 10A		
	PS3~PS5	1V~15V / 6A		
	PS6	-1V~-15V / 6A		
	Output accuracy	± (2%+50mV)		

Reference → Semiconductor <http://www.espec.co.jp/english/products/market/it/semicon.html>



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