NanoCycler

One-Stop NAND Characterization

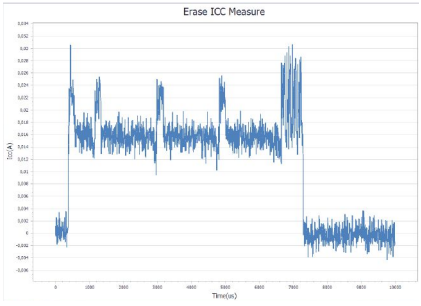
Fully Scalable Affordable Task-Optimized Equipment

Test per Package

- Per-socket test flow and temperature
- Accurate and fast thermal control
- Scalable architecture (1..84 sockets)
- Networking with central database

Datasheet Validation

- At-speed (up to 2.0GT/sec) operation
- ONFI 5 support
- Timing shoo and measurements
- Power profiling



Fast Introduction and Learning

- Easy and flexible programming (Python or C++)
- ONFI command library plus complex test operations
- Flexibility to implement vendor-specific commands
- Native connection to data analysis

Fast Track to Your SSD

N·PLUS·T
KNOWLEDGE AND TECHNOLOGY

flexibility, performance, best cost of ownership
to understand NAND and optimize your SSD

Feature	STD800	HS16	HS20
Protocols	• NV-SDR • NV-DDR, NV-DDR2, NV-DDR3		
Package	• BGA132/152		• BGA132/152 • BGA154
Max Transfer Rate Timing Modes	• 800 MT/sec • TM 0 - 10	• 1.6 GT/sec • TM 0 - 15	• 2.0 GT/sec • TM 0 - 19
Pattern Generator	• High quality pseudo-random • Zero overhead • User pattern from file		
Data Collection	• Zero overhead fail bit counter per chunk or per page • Separated 0->1 and 1->0 fail capture • Full bitmap upload to PC disk		
Timing Analyzer	• 1 usec signal capture	• 1 nsec edge placement • 20 nsec signal capture	
Voltages	• Jumper selectable level • Programmable on/off	• Programmable level • Programmable on/off • Vccq: 0.95V .. 1.9V, 1000mA • Vcc: 1.0V .. 3.8V, 500mA • Vpp: 10V .. 14V, 100mA	
Current Measurement	• shunt resistors for external probe	• Waveform capture • Peak and average capture • 2k sample buffer • Hardware averaging • 50 nsec sampling • 1mA resolution	
Temperature Control	• room temperature to 125 °C (can be placed in 0°C chamber) • 1°C accuracy • heating and cooling speed approx. 8 minutes in full range		
Architecture	• Development station (single socket) • Desktop system (6 sockets) • Rack-based system (24 or 48 sockets on 4 or 8 shelves) • High-density system (84 sockets on 7 shelves) • Each socket can run independent test: different test program, device type, temperature profile, asynchronous start and stop • Device tracking information shared among systems		

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