

# Memoright Corporation

*GTR Series  
Ruggedized SSD*

June 2011

# Memoright Ruggedized SSD

**Constant  
Speed**

**Seq. R/W up  
to 210/210  
MB/s**

**US MIL-STD-  
810F/G**

**In Drive UPS**

**1,000  
Power Cycle  
Testing**

**Security  
Erase/Destroy**

**IP65 Water Proof**



**Anti-Vibration  
15~2000Hz/16.4G**

**Wide Temp  
-40°C ~+85°C**

**Conformal  
Coating**



## Features

Constant  
Speed

Wide Temp  
-40°C~+85°C

Anti-  
Vibration  
15Hz~2000Hz  
/ 16.4G

Water Proof  
IP65

Anti- Shock



## Data Integrity

Memoright  
In-Drive UPS  
Ensures 100%  
Data Integrity

No Data  
Losses



## Interface

SATA II, 3Gbps

PATA, IDE



## Form Factor

2.5" SSD

1.8" SSD



## Security

Security Erase  
Modes:

Normal Erase

Quick Erase

Destroy

Military Purge

Triggered by  
both  
Hardware  
Button and  
Software  
Commands

**GTR technology platform delivers  
the Best Military SSD Solution**



# Military&Industrial Platform Performance Reference Table

Product	Form Factor	Interface	NAND Type	Sequential Read/Write	IOPS Read/Write	Operation Temperature	MTBF (Hour)	S.M.A.R.T. Attribute	Secutiry Erase	In-Drive UPS
GTR / *GTR-D	2.5"	SATA II, 3Gbps	SLC	120/120 MB/s	10,000/500	-40℃~+85℃	>1,100,000	V	V	V
**GTR-H	2.5"	SATA II, 3Gbps	SLC	120/120 MB/s	10,000/500	-40℃~+85℃	>1,100,000	V	V	V
GTR II	2.5"	SATA II, 3Gbps	SLC	210/210 MB/s	10,500/500	-40℃~+85℃	>1,100,000	V	V	V
GTRS Plus	2.5"	SATA II, 3Gbps	SLC	130/100 MB/s	9,000/6,300	-40℃~+85℃	>1,100,000	V	V	
STR-25	2.5"	SATA II, 3Gbps	SLC	140/110 MB/s	10,000/5,000	-40℃~+85℃	>2,100,000	V	V	V
GTR-18	1.8"	SATA II, 3Gbps Micro SATA	SLC	120/120 MB/s	10,000/500	-40℃~+85℃	>1,100,000	V	V	V
***GTR-P	2.5"	IDE	SLC	110/110 MB/s	9,000/500	-40℃~+85℃	>1,100,000	V	V	V
STRP-25	2.5"	IDE	SLC	110/110 MB/s	10,000/3,500	-40℃~+85℃	>2,100,000	V	V	
* Hardware Erase (15 Pin power connector)										
** 6 Pin Hardware Erase										
***Hardware Erase Support										

# Technology Strength

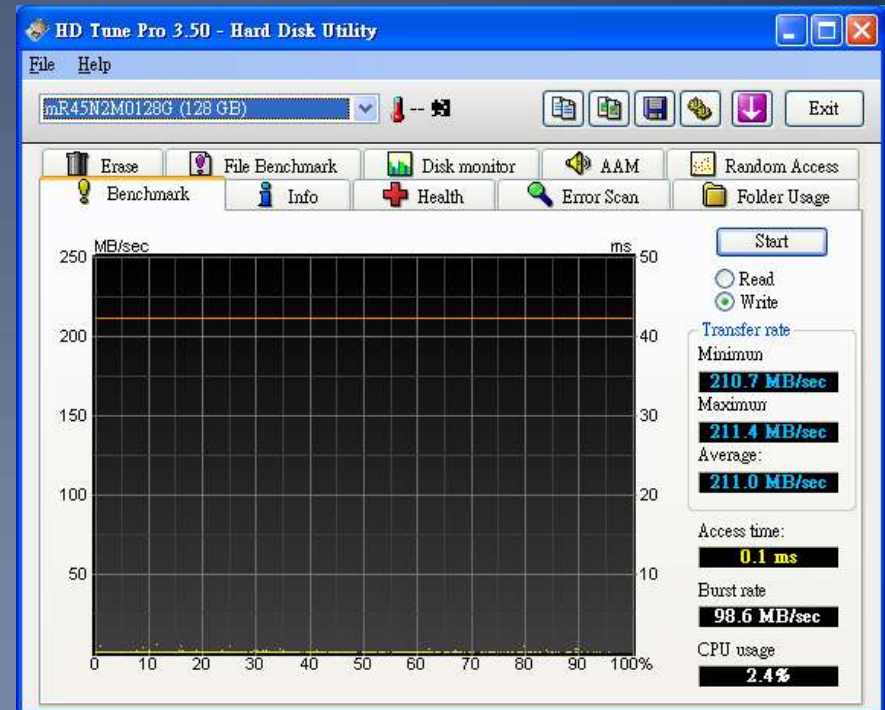
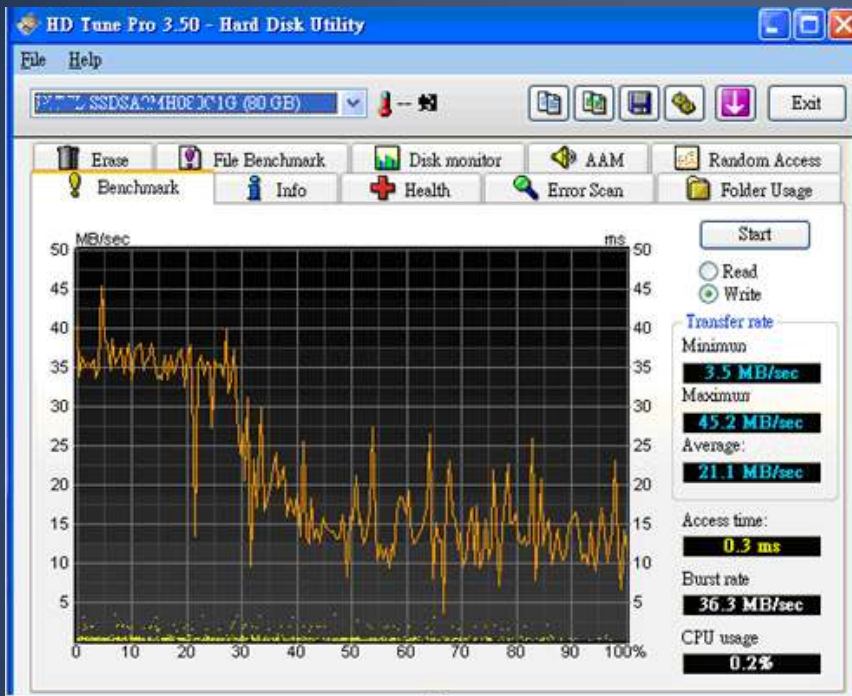
- Constant Speed
- In-Drive UPS
- Security Erase & Self-Destroy
- SSD Health Doctor
- Destroke function design
- Life Span Management
- Fully customized design service
- Conformal Coating
- Quality Management

# Constant Speed

Competitor

vs.

Memoright GTR II



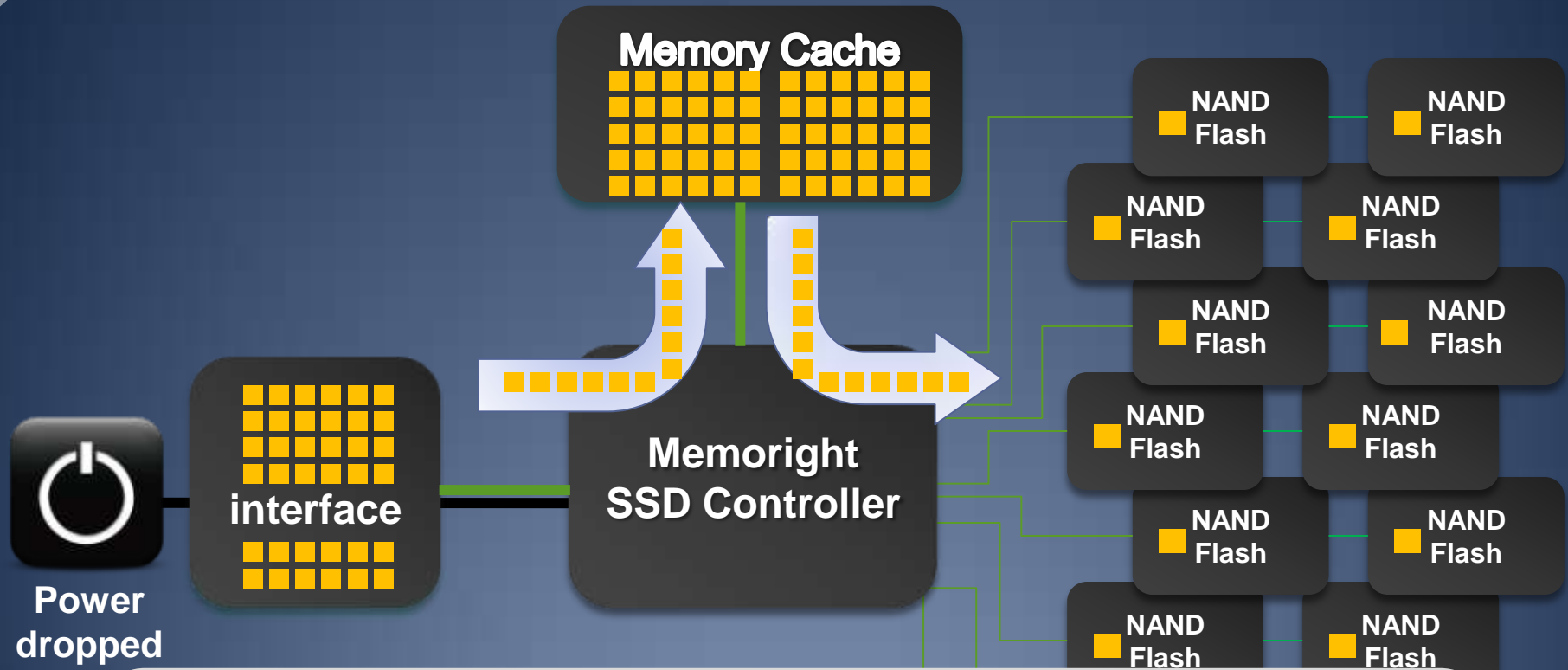
Memoright proprietary technology brings 100% constant speed at all time!

# Memoright In-Drive UPS

Ensure 100% Data Integrity



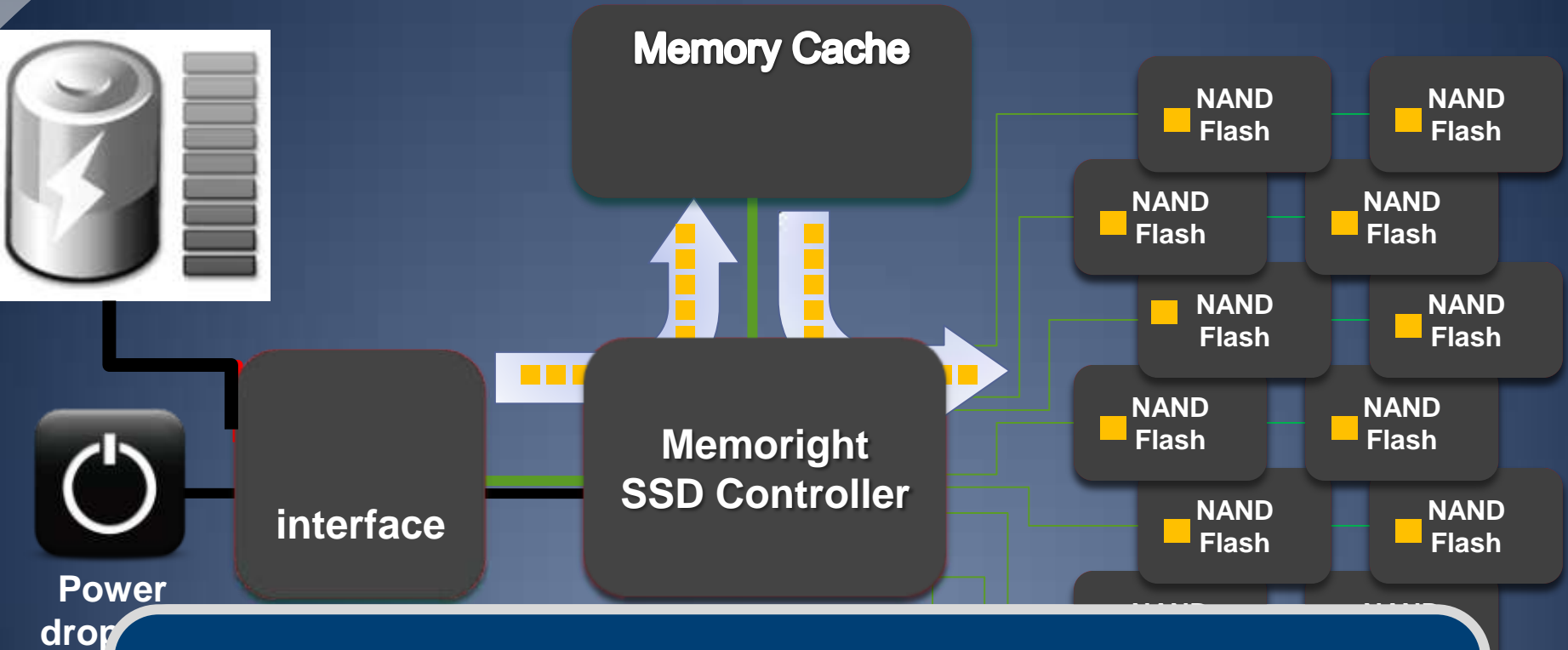
# Without In-Drive UPS – Power dropped



- Data is missing
- NAND Flash could become bad block.



# Memoright In-Drive UPS – Power Dropped



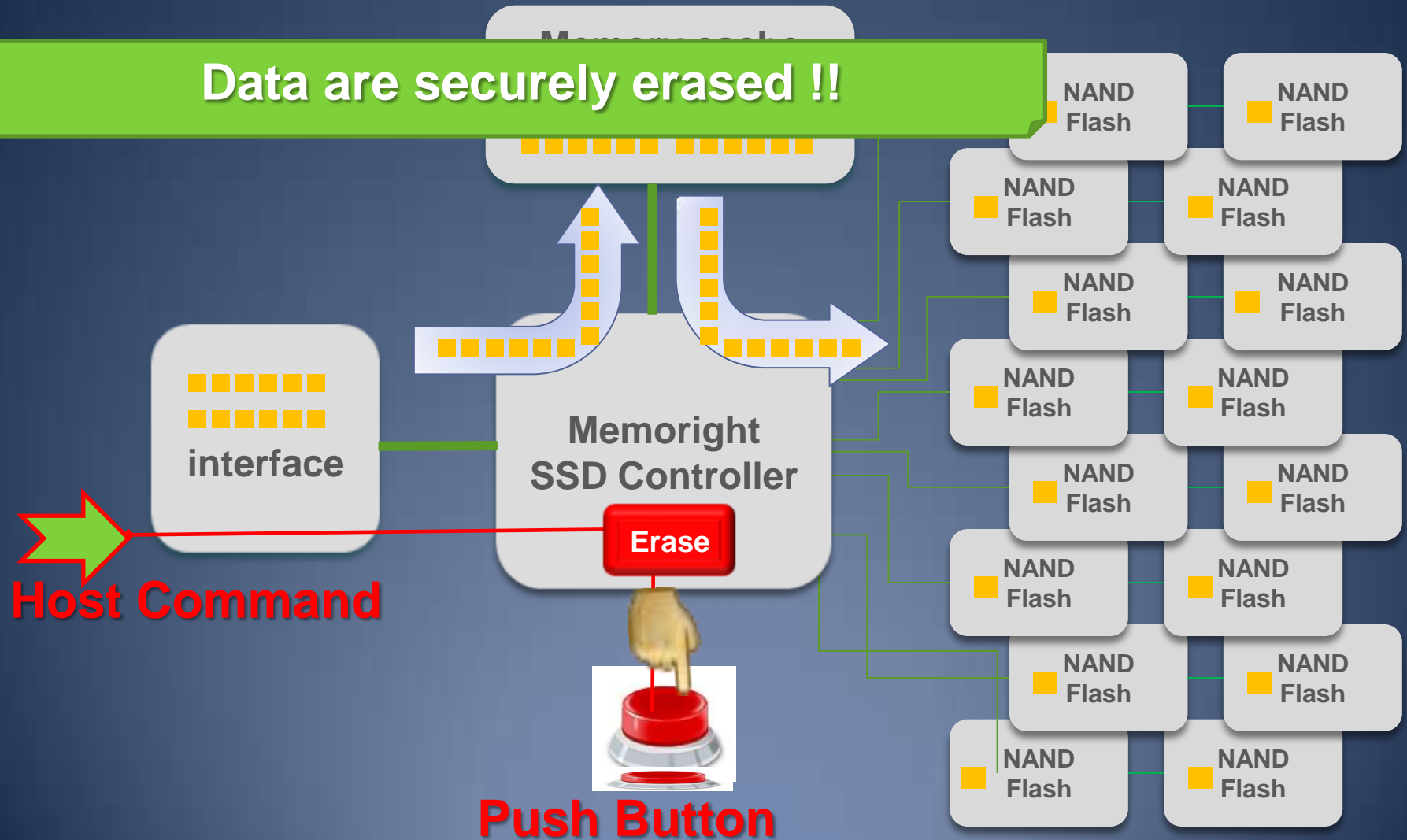
**Memoright In-Drive UPS**  
**Secure Your Data!!**

Power

# Secure Erase & Self-Destroy

Erase all the data in seconds

# Secure Erase



# Secure Erase & Self-Destroy

- Commercial Erase Modes:

- Erase
- Erase + Program
- Erase + Destroy

- Military Erase Modes:

- DoD 5220.22-M
- DoD 5220.22-M-Sup 1
- NSA 9 -12
- NSA 130 - 2
- AFSSI - 5020
- NAVSO
- AR 380 -5



**Memoright  
Security Erase**  
has already being  
used by militaries  
in several  
countries !!

# Secure Erase

Types	Features	Description
Normal Erase	Erase+ Program	<ul style="list-style-type: none"> <li>• Default setting</li> <li>• Erase and overwrite the whole drive.</li> <li>• Takes 6 minutes only. (32GB)</li> <li>• Data not recoverable. System can recognize SSD, and can Read/Write.</li> </ul>
Quick Erase	Erase	<ul style="list-style-type: none"> <li>• Takes only 10 seconds only. (32GB)</li> <li>• Data not recoverable. System can recognize SSD, but cannot Read/Write</li> </ul>
Destroy	Erase+ Destroy	<ul style="list-style-type: none"> <li>• Takes 10 seconds only. (32GB)</li> <li>• Data not recoverable. System cannot recognize nor read/write.</li> </ul>
Military Purge	Erase+ Program	<ul style="list-style-type: none"> <li>• Takes 6 minutes only. (32GB)</li> <li>• HW erase button; push button to trigger.</li> <li>• Military Purge supports several military erase modes including: NSA 9-12/NAVSO/AFSSI/AR380/DOD/DOD Sup1/NSA 130-2/NSA 9-12</li> <li>• Data not recoverable. System can recognize SSD, and can Read/Write.</li> </ul>

## Erase/Destroy Time

Secure Erase Mode	Erase Time		
Capacity	32GB	64GB	128GB
Erase	10 seconds	19 seconds	38 seconds
Erase+Program	6 minutes	10 minutes	22 minutes
Erase+Destroy	10 seconds	19 seconds	38 seconds



Thank You !

