

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

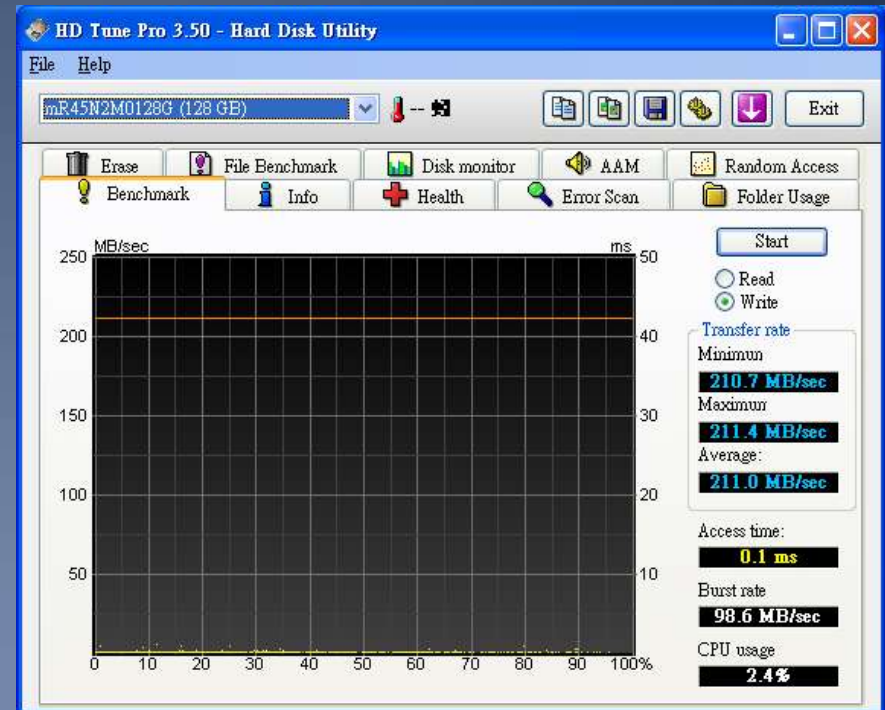
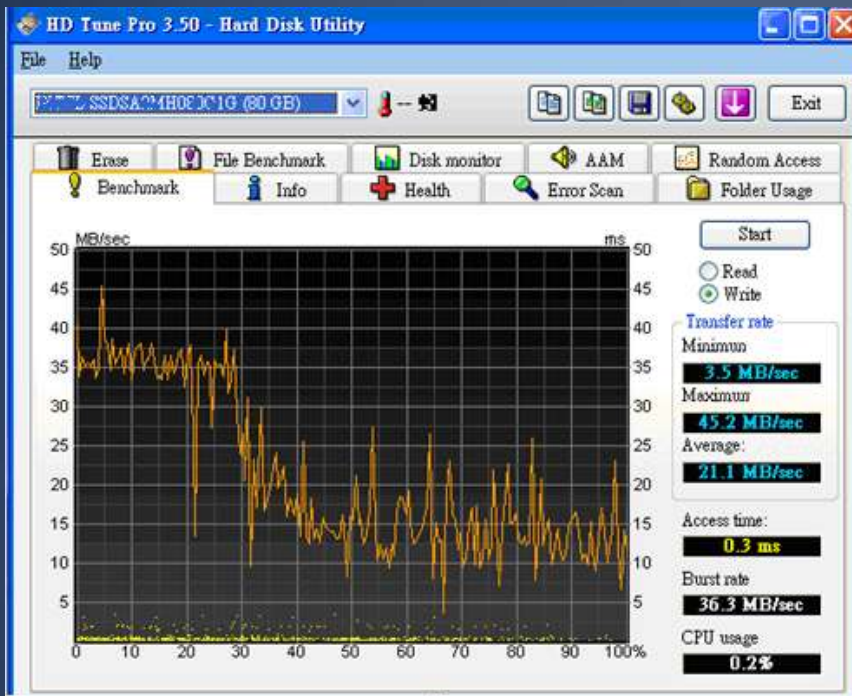
- Constant Speed
- In-Drive UPS
- Security Erase & Self-Destroy
- SSD Health Doctor
- Destroke function design
- Life Span Management
- Fully customized design service
- Conformal Coating
- Quality Management

Constant Speed

Competitor

vs.

Memoright GTR II

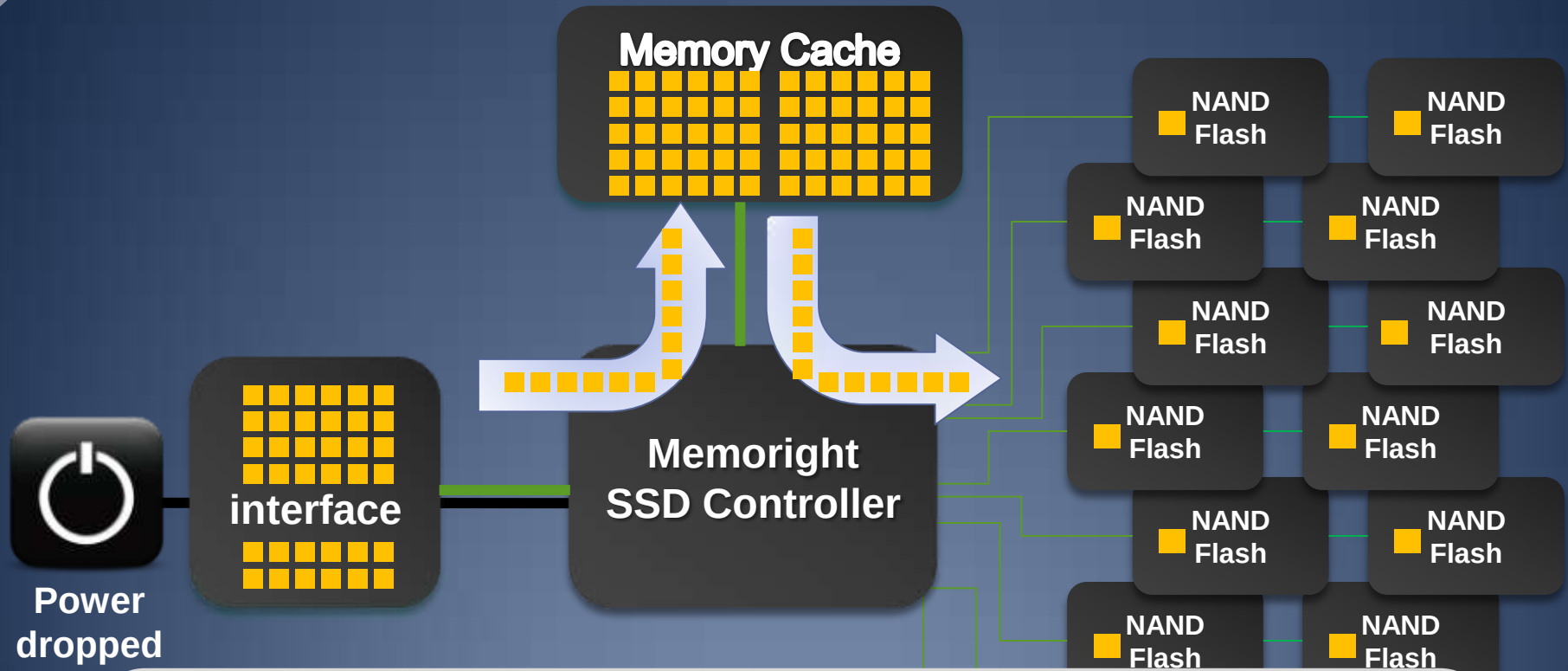


Memoright proprietary technology brings 100% constant speed at all time!

Memoright In-Drive UPS

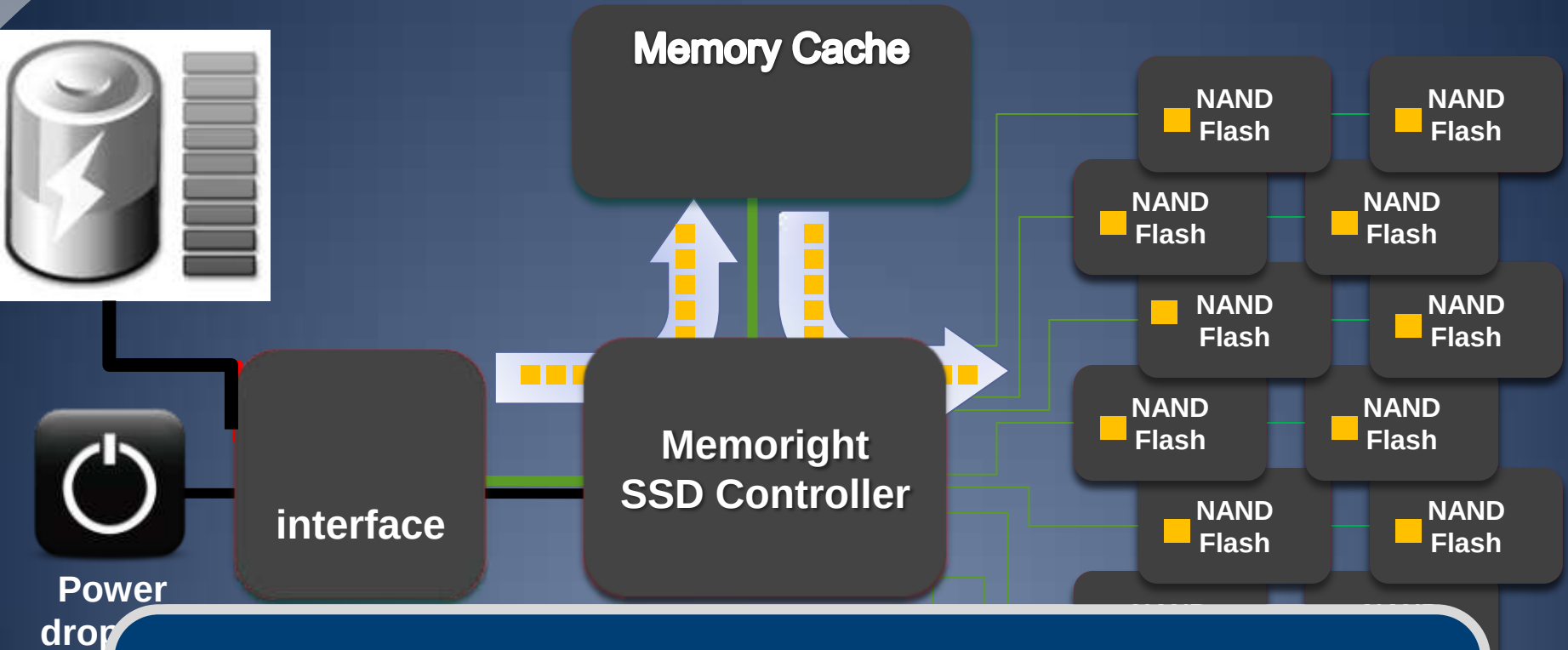
Ensure 100% Data Integrity

Without In-Drive UPS – Power dropped



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

Memoright In-Drive UPS – Power Dropped

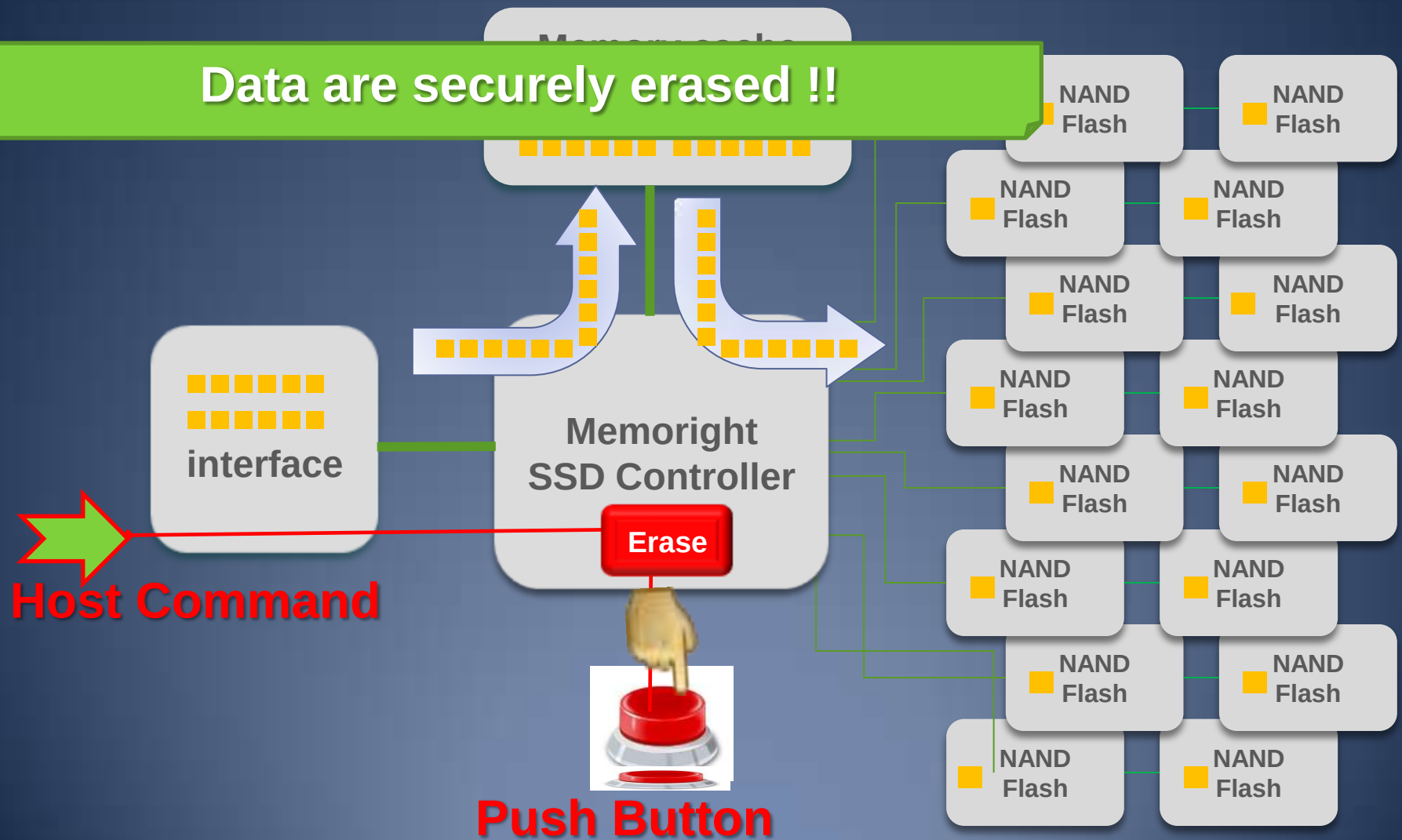


Memoright In-Drive UPS
Secure Your Data!!

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	• Default setting • Erase and overwrite the whole drive. • Takes 6 minutes only. (32GB) • Data not recoverable. System can recognize SSD, and can Read/Write.
Quick Erase	Erase	• Takes only 10 seconds only. (32GB) • Data not recoverable. System can recognize SSD, but cannot Read/Write
Destroy	Erase+ Destroy	• Takes 10 seconds only. (32GB) • Data not recoverable. System cannot recognize nor read/write.
Military Purge	Erase+ Program	• Takes 6 minutes only. (32GB) • HW erase button; push button to trigger. • Military Purge supports several military erase modes including: NSA 9-12/NAVSO/AFSSI/AR380/DOD/DOD Sup1/NSA 130-2/NSA 9-12 • Data not recoverable. System can recognize SSD, and can Read/Write.

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 !

