



INTELLIGENT MEMORY

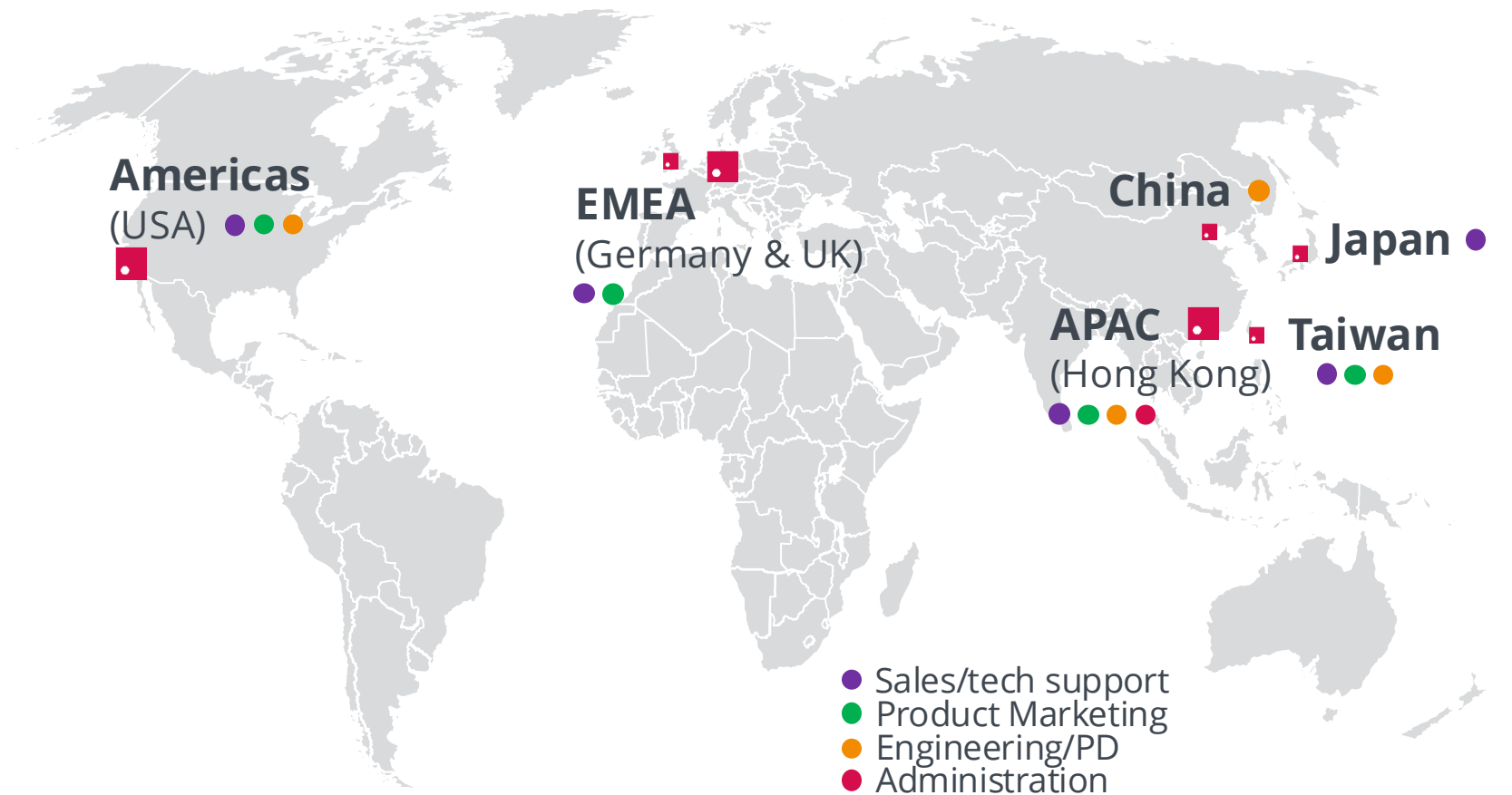
Intelligent Memory

Company Presentation

Intelligent Memory | Introduction

Unlimited Ingenuity

- **1991**
Founded as
Pacific Force Technology Limited
- **2014**
Changed to
I'M Intelligent Memory Limited
- **Since 2021**
Operating as
Intelligent Memory Limited



INTELLIGENT MEMORY

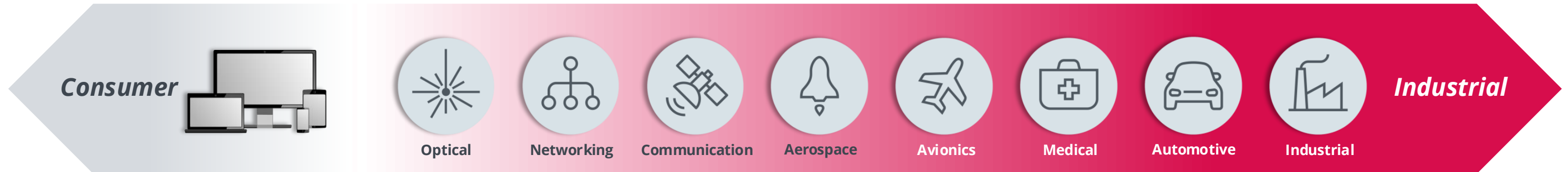
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Business Focus | Introduction

Industrial & Embedded Markets

and their unique product and service requirements



- Commoditized
- (Unit) price driven
- Short product cycles
- From legacy to latest technologies
- Low volume/high mix
- Controlled BOM
- Longevity-focused life cycle management
- Commercial, technical and logistical support in all regions
- In-house product designs, manufacturing, and testing capabilities
- Products designed for longevity and reliability

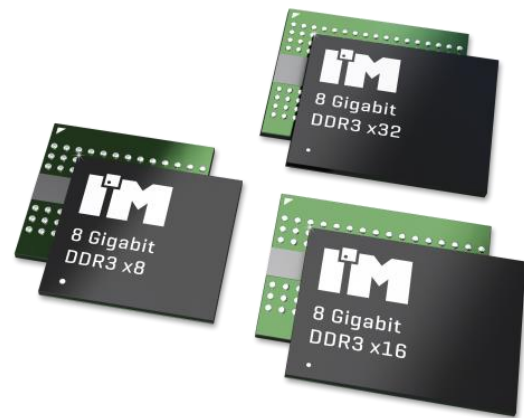
Key Differentiators | Introduction

Unique & extensive industrial memory offering

IM is the only supplier offering their own **DRAM components**, **DRAM modules** and **managed NAND** products. This allows **IM** to address close to all memory requirements of our customers.

DRAM Components

- Differentiated offering
- Legacy to latest technologies
- Unique capacities



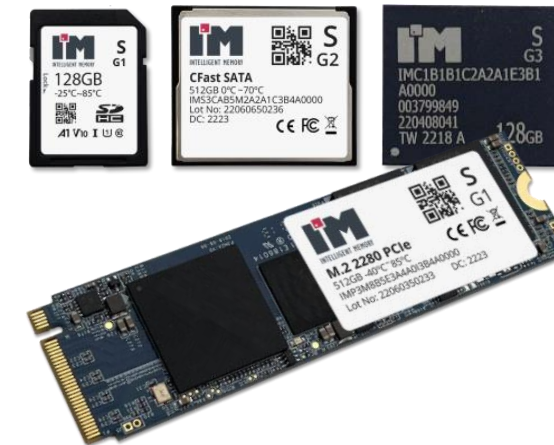
DRAM Modules

- IMOriginal
- IMSelect
- Variety of form factors



NAND Products

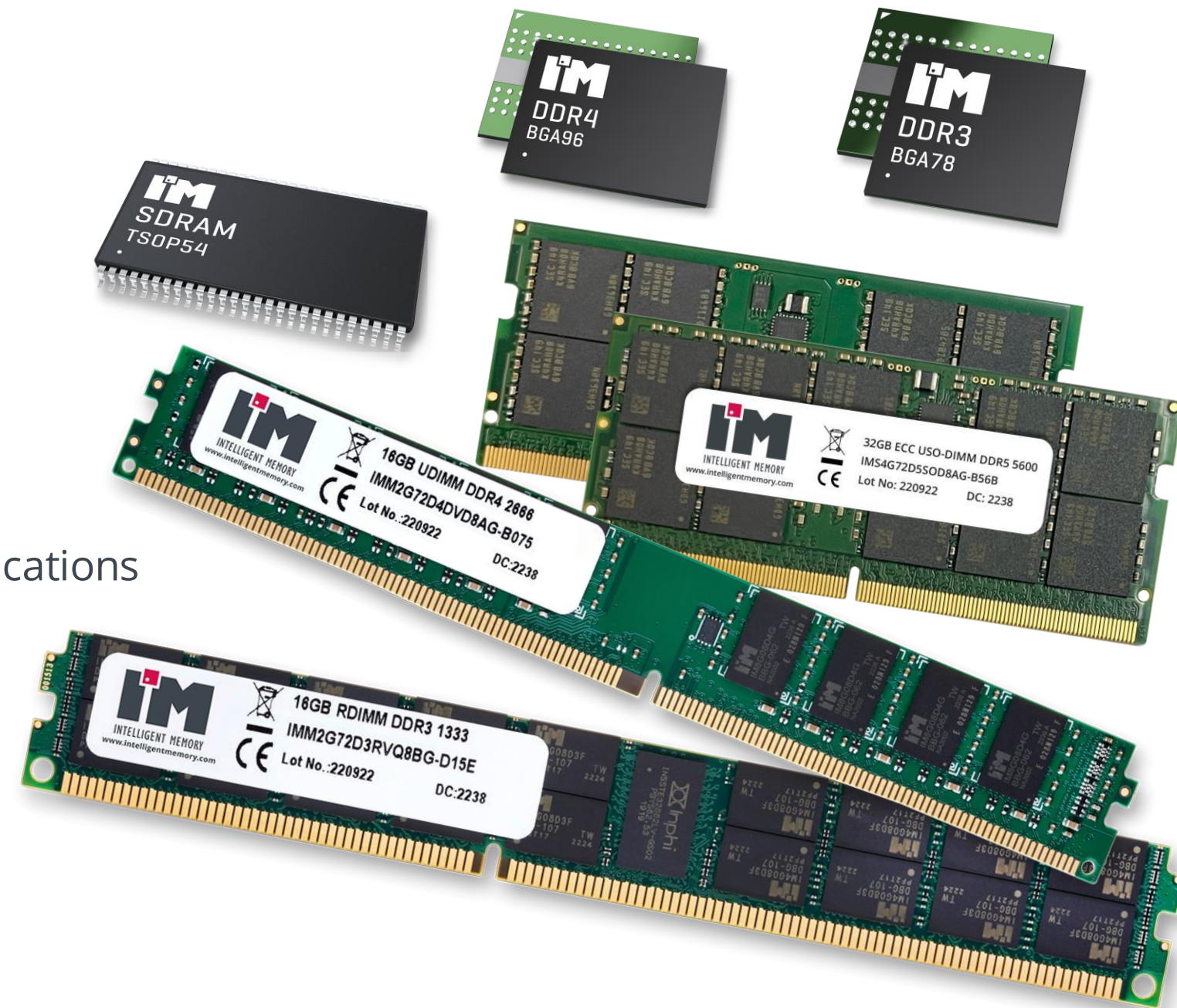
- All common interfaces and form factors
- Customizable to use cases



IM DRAM Products | Overview

Our Benefits

- **More than 30 years of experience** serving industrial markets with DRAM solutions
- **Full in-house product knowledge:**
From **design** to **manufacturing** to **testing**
- Full-range of **JEDEC compliant products**
 - SDRAM, DDR, DDR2, DDR3, DDR4
 - LPDDR, LPDDR2, LPDDR3, LPDDR4(x)
- Specialty built-in **ECC DRAM** products for most demanding applications (e. g. Space, Automotive)
- **Longevity** and **supply stability**



IM DRAM Products | Line-up Overview

Components

- JEDEC Compliant
- Legacy to latest technologies
- Longevity focus

	Standard	Integrated ECC
LPDDR4x	4Gb - 64Gb	
LPDDR4	4Gb - 64Gb	4Gb, 8Gb
DDR4	4Gb, 8Gb, 16Gb, 32Gb	
LPDDR3	8Gb, 16Gb	
DDR3/L	1Gb - 16Gb	1Gb
LPDDR2	1Gb x16, 2Gb - 4Gb (x32)	
DDR2	512Mb - 2Gb	1Gb
DDR	256Mb - 1Gb	1Gb
SDRAM	64Mb - 512Mb	256Mb, 512Mb

Modules

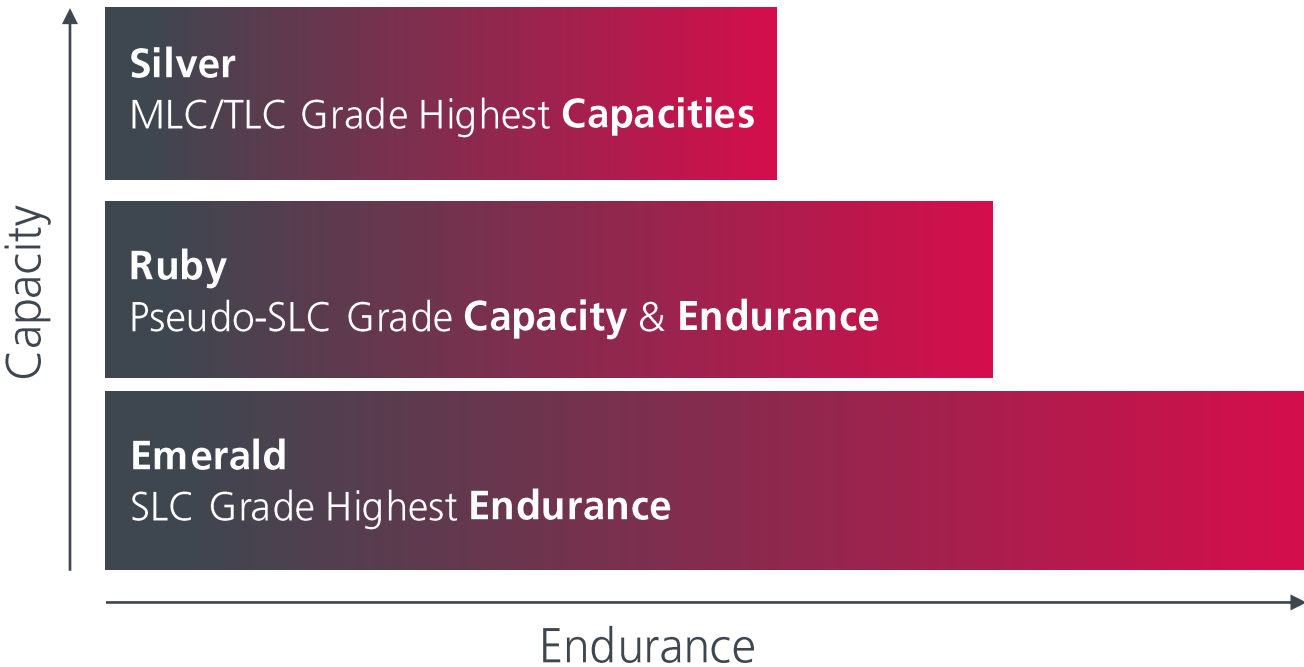
- In House Manufacturing
- Based on IM DRAM components as well as from other suppliers
- All standard form factors, plus special/custom designs
- Available in Commercial and Industrial Temperature Grades

	Capacity	Height
DDR5	Up to 64GB	STD, VLP
DDR4	Up to 64GB	STD, VLP, ULP
DDR3	Up to 32GB	STD, VLP, ULP
DDR2	Up to 8GB	STD, VLP
DDR	Up to 2GB	STD
SDRAM	Up to 1GB	STD

IM NAND Flash Products | Overview

IM's NAND Product Lineup

- IM's NAND line-up includes 3 family categories:
 - *Emerald*, *Ruby* and *Silver*, classified by their endurance
- Longevity options for extended, long-term availability without BOM changes
- Comes with IM's full range of technical support and tools



Silver

For Applications

- That require mid- to high-capacity ranges
- With a high write workload or very long required system lifetime

Ruby

For Applications

- That require highest possible capacities
- With normal write workload, e.g.
 - No 24/7 write access
 - More sequential than random workload

Emerald

Addressing All Requirements Towards an SLC-Based Product

- Highest endurance
 - Equivalent to min. 60.000 P/E cycles;
 - Highest endurance under random workload
- Performance in combination with latest firmware architecture
 - Superior sequential and random performance
- Reliability
 - Highest quality HW, combined with sophisticated firmware mechanisms ensure high level of reliability and data integrity

IM NAND Flash Products | Overview

IM's NAND Product Lineup – Interface & Form Factor

eMMC



100b & 153b versions


Extended, Industrial & Automotive temperature

Product Highlight

Low density line

- 4GB, 8GB, 16GB

SATA



Range of form factors & capacities

Product Highlight

- BGA, embedded, removable
- 8GB to 16TB

Commercial & Industrial temperature

PATA



SD




Extended & Industrial temperature

Product Highlight

Longevity line

- 10+ years fixed BOM
- 512MB, 1GB, 2GB

PCIe



Gen3, Gen4, Gen5 (coming up)

Low power & high performance versions

Extended & Industrial temperature

Product Highlight

High densities: up to 16TB

USB



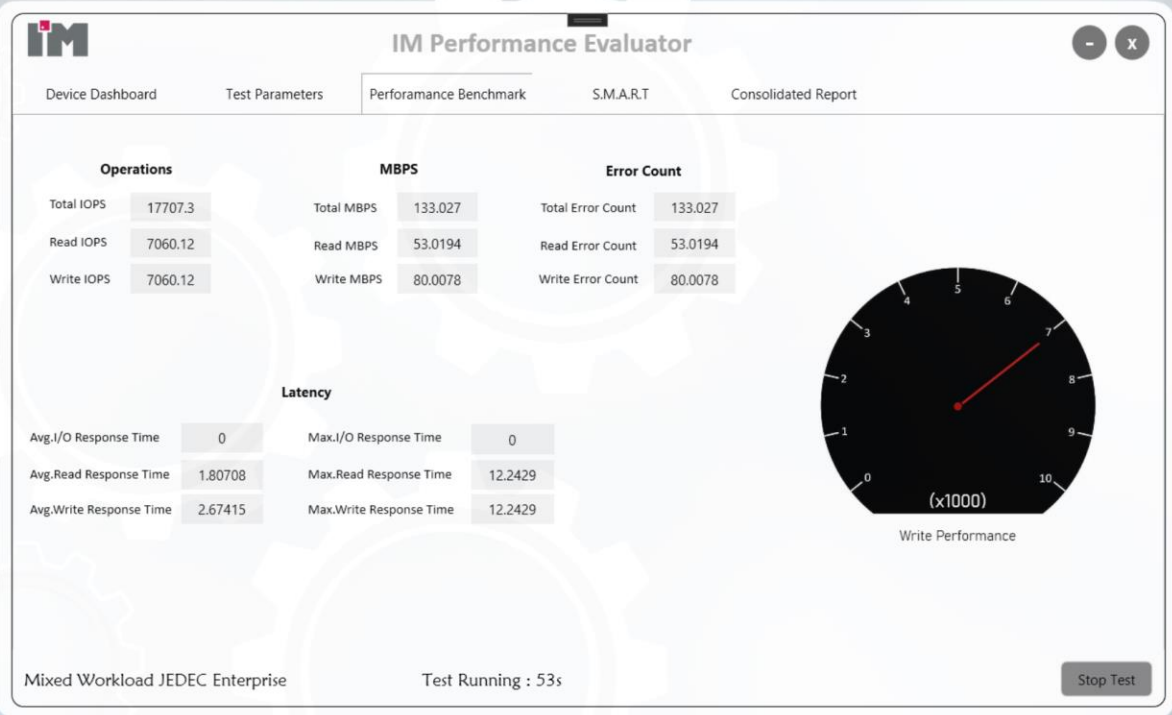
IM NAND Products | Key Features - PLACEHOLDER

Reliability, Performance & Endurance Enhancements

embedded into our NAND products

Lifetime Monitoring

- Available for Windows, Linux and as library
- Wide range of parameters that can be monitored



UNLIMITED INGENUITY

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