DEFENCE SOLUTIONS

TODAY'S DEFENCE AND INDUSTRIAL APPLICATIONS REQUIRE ADVANCED DRAM AND FLASH MEMORY, WHICH MUST BE ABLE TO WITHSTAND THE RIGOROUS REQUIREMENTS OF THE ENVIRONMENT AND MEET SECURITY STANDARDS.
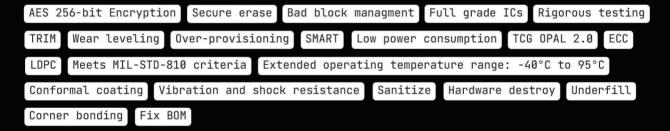
CHALLENGES TO OVERCOME

One of the key challenges is the wide operating temperature range that affects DRAM and Flash, resulting in degraded dynamic performance and increased memory cell leakage. High level of humidity is also a significant threat, causing corrosion. Low humidity in turn promotes electrostatic problems. Another challenge is mechanical vibration, which can cause electrical connections to break. For products based on Flash technology the issue of firmware security is of particular importance. This security includes resistance to cyber-attacks both hardware and software, and operational reliability. The Goodram Industrial offers products that fully meet these requirements and overcome the challenges.

VALIDATION AND SPECIFIC REQUIREMENTS

Goodram Industrial memory products are tested to IEC 60068 and validated against MIL-STD-810 criteria. Firmware products such as eMMC/MCP, uSD/SD and SSD, can be tailored to meet the specific functional and security requirements of a given application. These features enable our solutions to meet the high expectations of and integrators in the industrial and defence sectors.

MEMORY KEY FEATURES

`AES 256-bit Encryption` `Secure erase` `Bad block managment` `Full grade ICs` `Rigorous testing` `TRIM` `Wear leveling` `Over-provisioning` `SMART` `Low power consumption` `TCG OPAL 2.0` `ECC` `LDPC` `Meets MIL-STD-810 criteria` `Extended operating temperature range: -40°C to 95°C` `Conformal coating` `Vibration and shock resistance` `Sanitize` `Hardware destroy` `Underfill` `Corner bonding` `Fix BOM`

MEMORY CUSTOMIZATION

We offer an industrial memory customization service tailored to customers' specific requirements. We provide full firmware adjustment, including the Firmware Stable Write option and solutions focused on low power consumption, crucial in critical applications - where power source availability is usually limited. We also offer other modifications to meet specific operational needs and ensure the highest level of reliability under all operating conditions.

More information at
www.goodram-industrial.com