Lexar ENTERPRISE

POWERING RELIABILITY IN EXTREME ENVIRONMENTS

FORESEE™ SLC NAND Flash for Industrial Systems

POWERING THE FUTURE WITH SMARTER MEMORY SOLUTIONS

At Lexar Enterprise, memory is more than storage—it's the foundation of reliable system performance. Through our FORESEE™ product brand, we deliver purpose-built memory solutions designed to meet the demands of industrial, embedded, and connected devices operating in real-world conditions.

This success story highlights how FORESEE SLC NAND Flash helped an industrial access device manufacturer achieve reliability targets in high-temperature environments—reducing failures, minimizing site swaps, and accelerating deployment.

AT A GLANCE

- APPLICATION: Industrial access devices (high-temperature environments)
- CHALLENGE: Intermittent system reboots during pilot deployment
- SOLUTION: FORESEE SLC NAND Flash (industrial temperature grade) with tuned write behavior
- OUTCOME: Reliability targets met and fewer on-site swaps

"At Lexar Enterprise, our vision is to enable smarter, more sustainable technology ecosystems. FORESEE solutions are built not just for today's needs, but for tomorrow's opportunities."

JOEL BOQUIREN
Chief Marketing Officer
Lexar Enterprise

THE CHALLENGE:

Reliability Under Heat and Stress

Industrial access systems are often deployed in environments where heat, continuous operation, and limited service access are the norm. During pilot testing, one customer experienced intermittent system reboots that threatened deployment timelines and increased the risk of costly on-site maintenance.

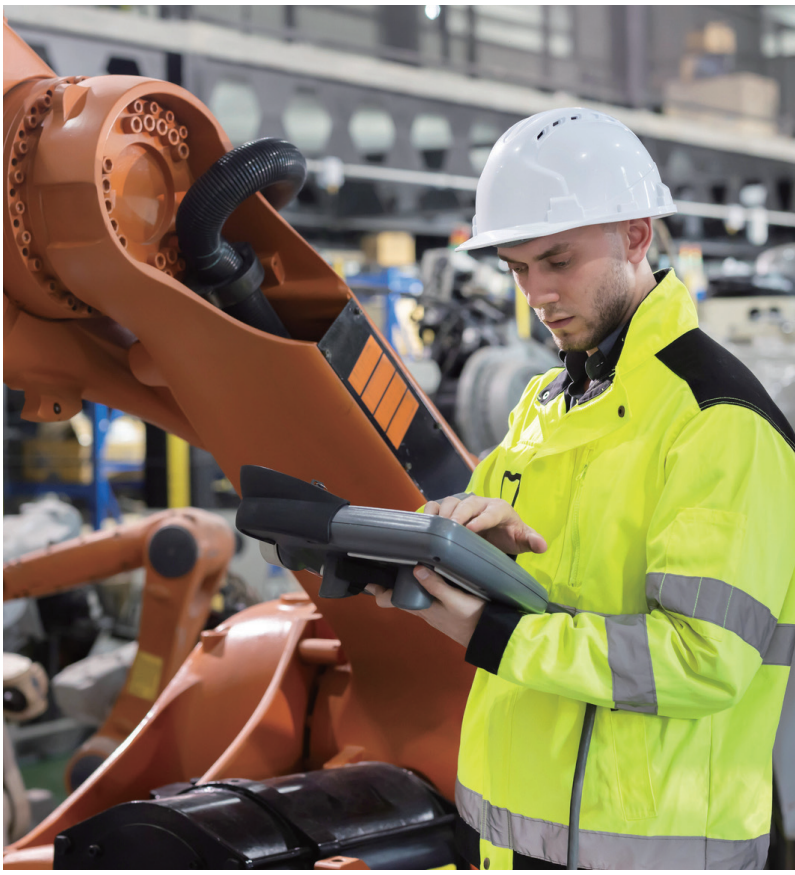
Standard memory solutions were unable to consistently meet endurance and stability requirements under sustained thermal stress, putting long-term reliability—and customer confidence—at risk.

THE SOLUTION:

FORESEE SLC NAND Flash

When reliability is non-negotiable, FORESEE SLC NAND Flash delivers the endurance and performance required for mission-critical applications.

By deploying industrial-temperature-grade SLC NAND and tuning write behavior for the customer's workload, Lexar Enterprise helped stabilize system performance under high-temperature conditions. The solution was designed to support continuous operation while maintaining predictable behavior over the product's lifecycle.



CUSTOMER WIN: INDUSTRIAL WIFI, HIGH TEMP

ISSUE:	SOLUTION:	Result:
Intermittent reboots	FORESEE SLC NAND Flash (industrial temperature) with tuned write	Reliability target met; fewer site swaps

PERSPECTIVE:
Reliability First

As connected infrastructure and smart industrial systems continue to expand, high-endurance memory remains critical. Applications operating in uncontrolled or high-temperature environments demand solutions that prioritize data integrity, predictable behavior, and long-term availability.

SLC NAND continues to play a key role where system uptime and reliability directly impact operational costs and customer trust.

WHY FORESEE:
Reliability at Scale

- High endurance architectures designed for continuous operation
- Industrial temperature options for harsh environments
- Proven validation and tuning support aligned to real workloads
- Roadmap stability and supply longevity for multi-year programs

CONCLUSION:

With FORESEE SLC NAND Flash, Lexar Enterprise enables industrial teams to deploy reliable systems with confidence. By addressing endurance and thermal challenges head-on, FORESEE solutions help reduce field failures, simplify maintenance, and support long product lifecycles.

As industrial systems evolve, Lexar Enterprise remains committed to delivering memory solutions that form a dependable foundation for progress.

Next Step

Need more technical details or evaluation support? Our applications team can share qualification guidance, endurance profiles, and product matrices under NDA.

> "Lexar Enterprise helps our partners bring FORESEE products to market with confidence."
>
> Todd Levy
> Vice President Sales
> Lexar Enterprise