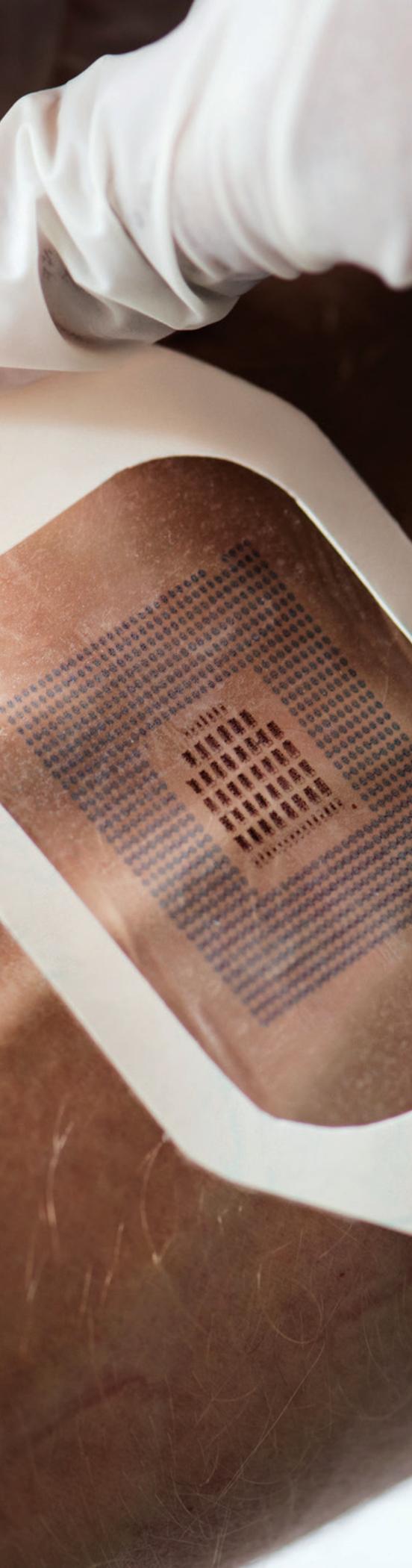


Lexar
ENTERPRISE



ENABLING COMPACT, HIGH-PERFORMANCE DEVICE DESIGN

FORESEE™ NAND-Based MCP for Wearables and Embedded Devices



POWERING THE FUTURE WITH SMARTER MEMORY SOLUTIONS

At Lexar Enterprise, memory is more than storage—it is 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.

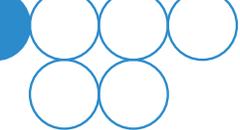
This success story highlights how FORESEE NAND-based MCP helped a wearable device manufacturer overcome space and power constraints—enabling a thinner design, responsive user experience, and efficient power management without compromising performance.

AT A GLANCE

- **APPLICATION:** Wearable and handheld consumer devices
- **CHALLENGE:** Tight z-height constraints and limited battery capacity
- **SOLUTION:** FORESEE NAND-based MCP integrating memory in a compact footprint
- **OUTCOME:** Thinner device design, responsive UI, and power targets met

“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:
Designing Smaller Without Sacrificing Performance

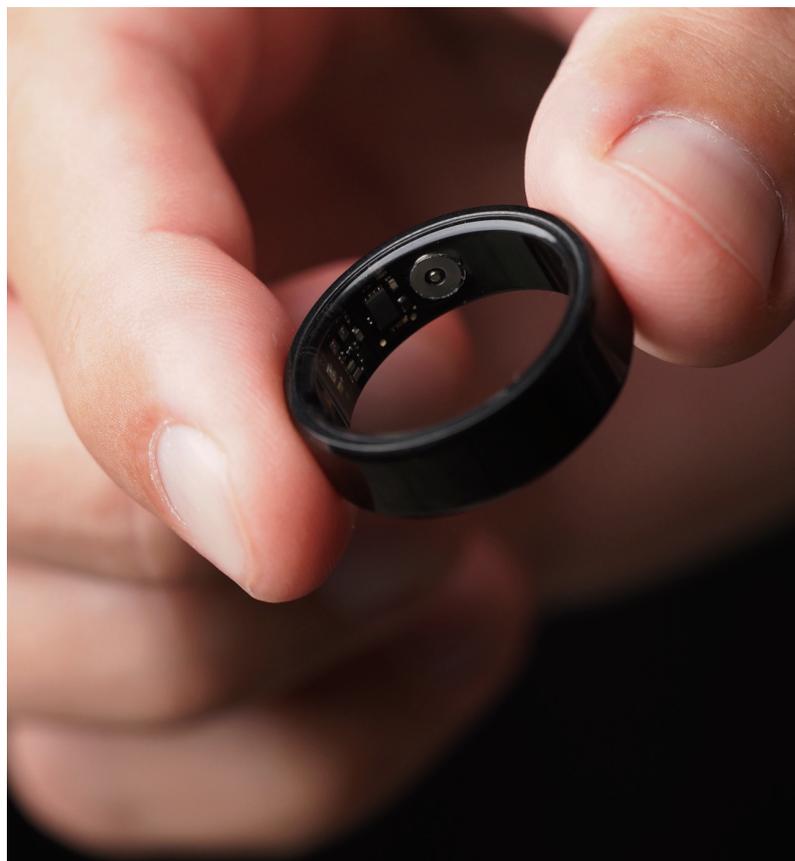
Modern wearables demand increasingly compact designs while delivering fast, responsive user experiences and all-day battery life. For one wearable manufacturer, z-height limitations and strict power budgets created challenges when using discrete memory components.

Balancing form factor, performance, and power efficiency required a memory solution that could reduce board space while maintaining system responsiveness and design flexibility.

THE SOLUTION:
FORESEE™
NAND-Based MCP

FORESEE NAND-based MCP consolidates memory into a single, space-efficient package—helping designers reduce footprint and simplify board layouts while meeting performance and power requirements.

By integrating storage and memory into a compact MCP solution, Lexar Enterprise enabled the customer to achieve aggressive size and battery targets while maintaining a smooth, responsive user interface. The result was a design optimized for both form and function.



CUSTOMER WIN: WEARABLE DEVICE

ISSUE:

Tight z-height constraints and limited battery capacity

SOLUTION:

FORESEE NAND-based MCP

RESULT:

Thinner device design, responsive UI, and power budget achieved

PERSPECTIVE:

Smaller, Smarter Devices

As consumer electronics and IoT devices continue to evolve, compact, integrated memory solutions are increasingly critical. Designers are under constant pressure to reduce size and power consumption while delivering richer functionality and better user experiences.

NAND-based MCP solutions play a key role in enabling smaller, smarter devices by simplifying system design and supporting efficient power management.

WHY FORESEE:

Reliability at Scale

- Space-saving MCP integration to meet size and battery goals
- Proven performance tuned for real-world consumer workloads
- Validation and support aligned to device-level design requirements
- Roadmap stability and supply longevity for multi-year programs

CONCLUSION:

With FORESEE NAND-based MCP, Lexar Enterprise helps device manufacturers overcome space and power constraints without compromising performance. By enabling compact designs with predictable behavior, FORESEE solutions support faster development cycles and more reliable products.

As device form factors continue to shrink, Lexar Enterprise remains committed to delivering integrated memory solutions that provide flexibility, efficiency, and confidence at scale.

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