



Designed Solutions

Driven by Innovation



SGHI™

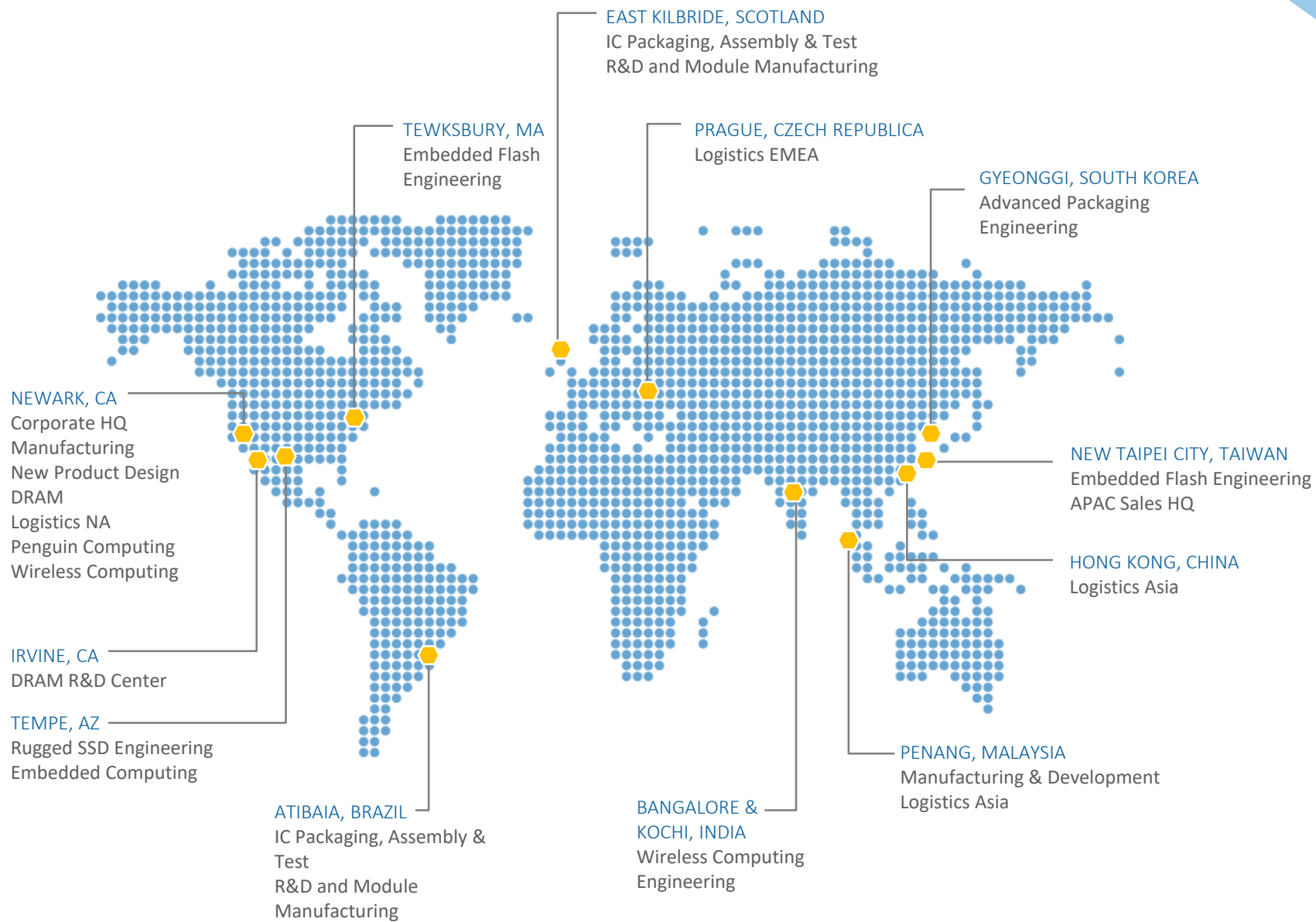


Global Footprint

 **SMART®**
Modular Technologies

 **SMART™**
Embedded Computing

 **SMART®**
Modular Technologies
Brazil



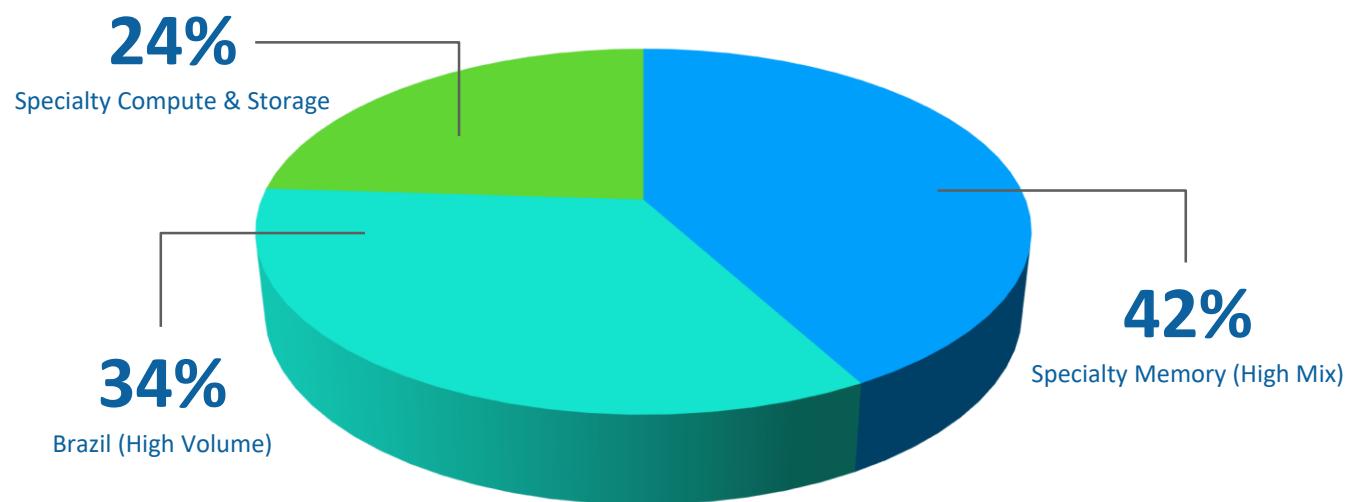


SMART Global Holdings is a proven technology leader in the design, development and deployment of current and next-generation specialty memory, storage and compute products and solutions.

Time Line



Revenue Mix



INTRODUCING



We are a global leader providing specialty memory solutions to OEM's focused in vertical markets including:

- Artificial Intelligence (A/I)
- Communications
- IIoT
- Industrial
- Military
- Mobile
- Networking
- Storage
- Surveillance



Leadership Team



Jack Pacheco
Executive Vice President,
Chief Operating Officer SGH,
and President of SMART
Modular Technologies



Bruce Goldberg
Chief of Staff



KiWan Kim
Executive Vice President,
SMART Global Holdings,
President of SMART Emerging
Markets



Alan Marten
Senior Vice President,
Specialty Memory



Rogerio Nunes
Vice President and General
Manager, SMART Brazil



Tom Quinn
Senior Vice President,
Business Development



Anjali Reddy
Vice President of Worldwide
Materials



Mike Rubino
Vice President of Worldwide
Engineering

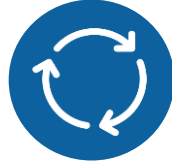


Satya Iyer
Vice President,
Specialty Memory

Specialty Memory Value Proposition

30
YEARS

Strong history of
providing Flash
and DRAM
products



Long product life
cycles



Robust
end-to-end
capabilities



Deep
engineering
collaboration
with customers



Long term
partnerships and
suppliers



Application
specific solutions



Quality
ISO-9000
Manufacturing



Dedicated
product
development
team

Why SMART?



DESIGN | SUPPLY CHAIN MANAGEMENT | MANUFACTURING

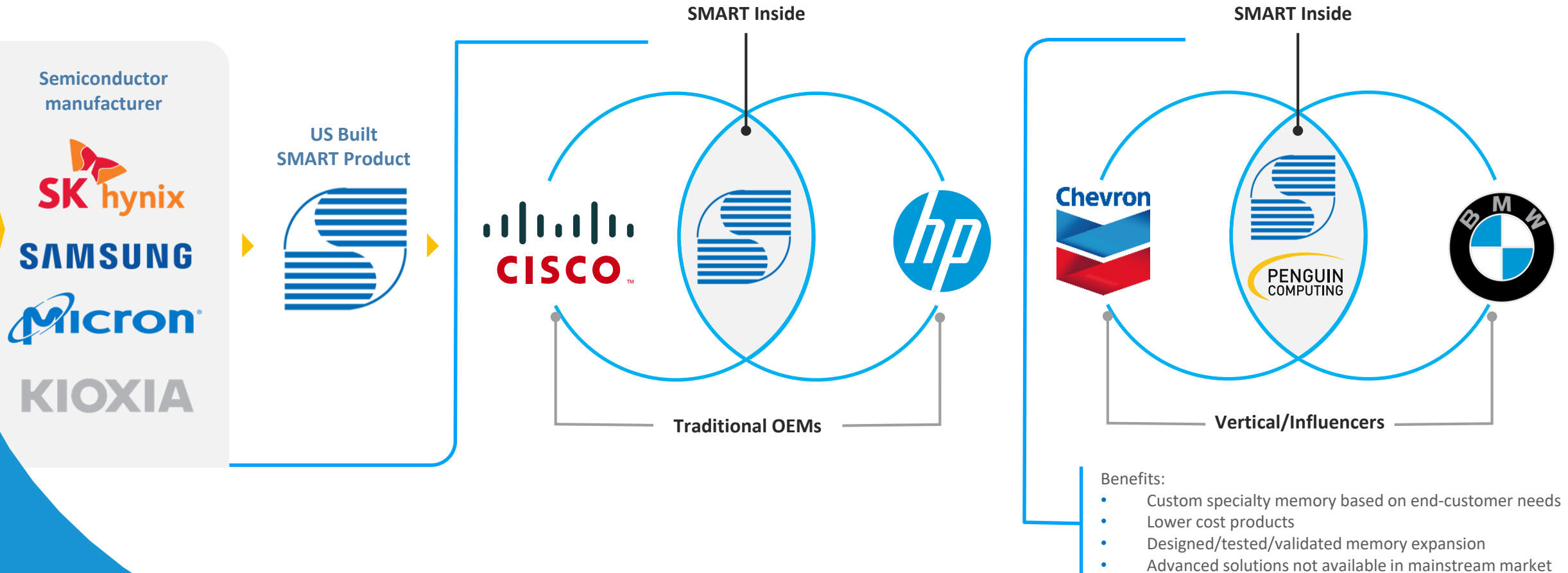
Powerful Value For Our Customers

- Design and Delivery Expertise
- Customer-Centric Engineering Focus
- Field Application Engineering (FAE) Support
- Design Validation Testing (DVT)
- Build To-Order-Manufacturing
- Long Product Lifecycles



Partnership Model

Our traditional sales model focuses on components used within our customers' products. The addition of Penguin Computing expanded our product offering which now includes high value data processing solutions.

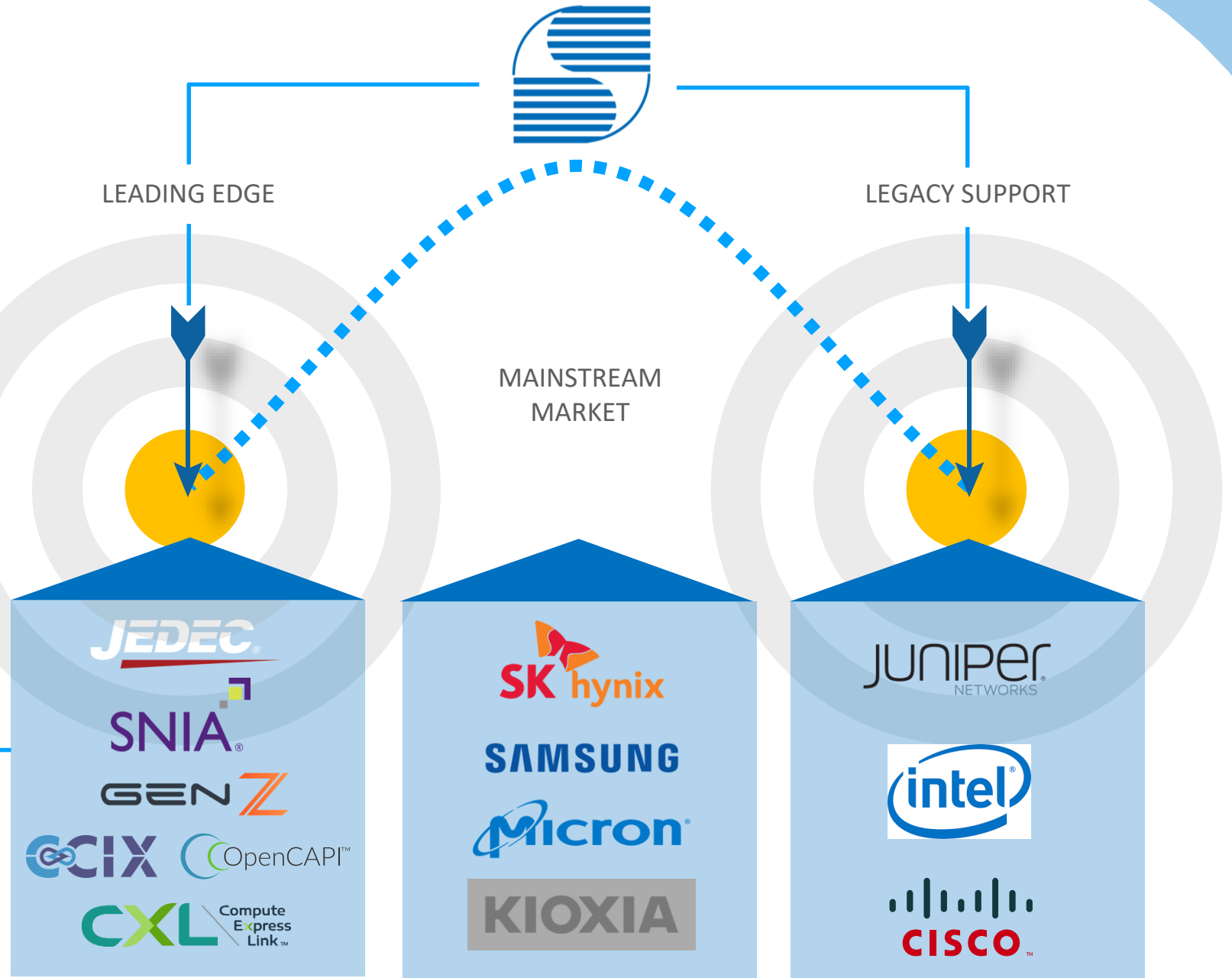


Specialty Memory

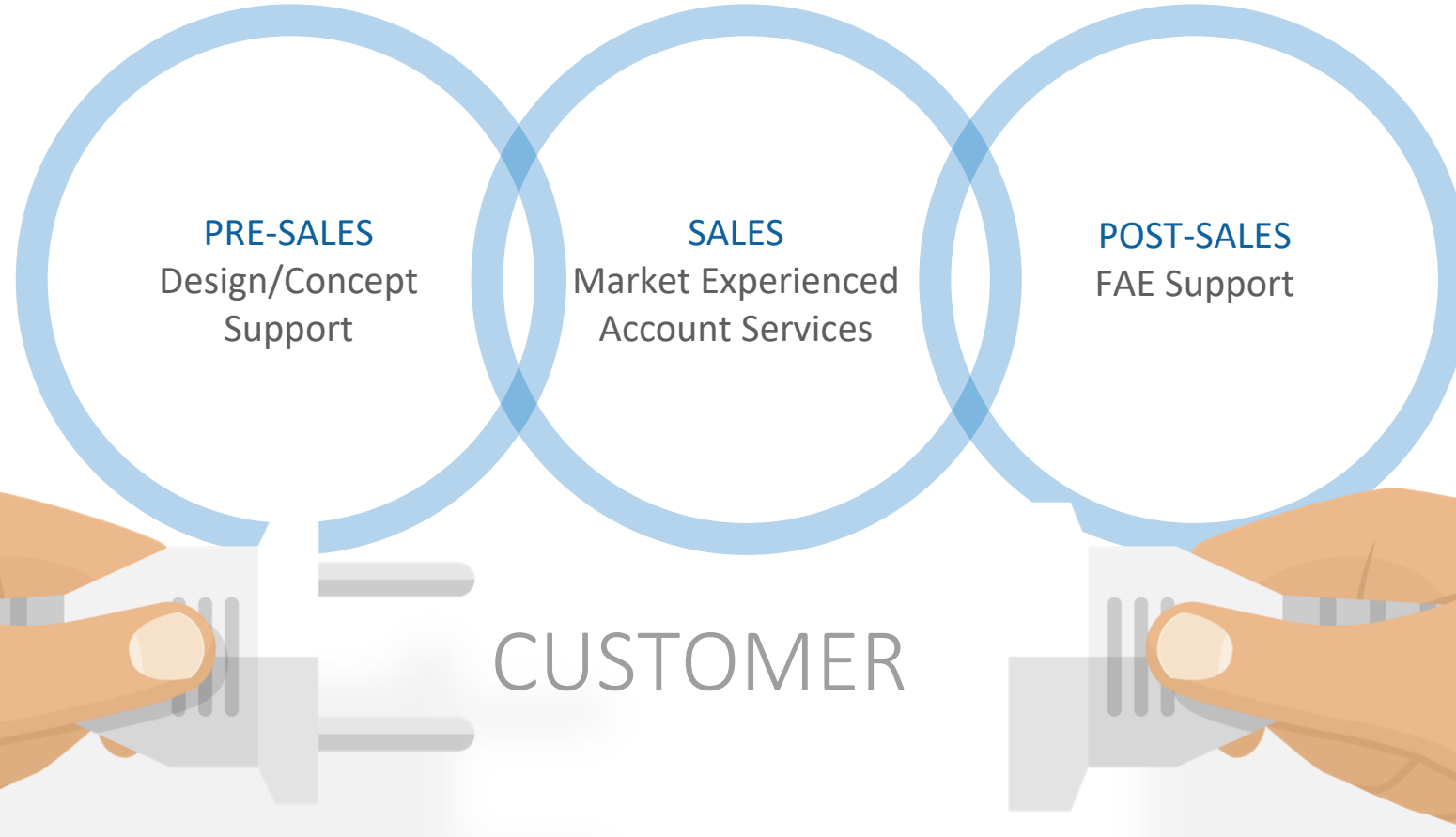
MARKET POSITION

Value Proposition:

- Enabling new technology adoption
- Specialty memory products
- Lower total cost solutions
- Long term life-cycle support
- Logistic and aftermarket services



Technical Support & Quality



Fast Turnaround Time | RMA Support | Quality Reports (8D) | Failure Analysis Solution-Driven
Support | In-Field FW Update | ISO 9000

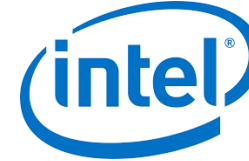
Serving All Vertical Markets

Networking
Telecom
Data Center
Storage
Transportation
Medical
Surveillance
Point of Sale
Gaming
IIoT
AI/Machine Learning
Military / Aerospace
Factory Automation



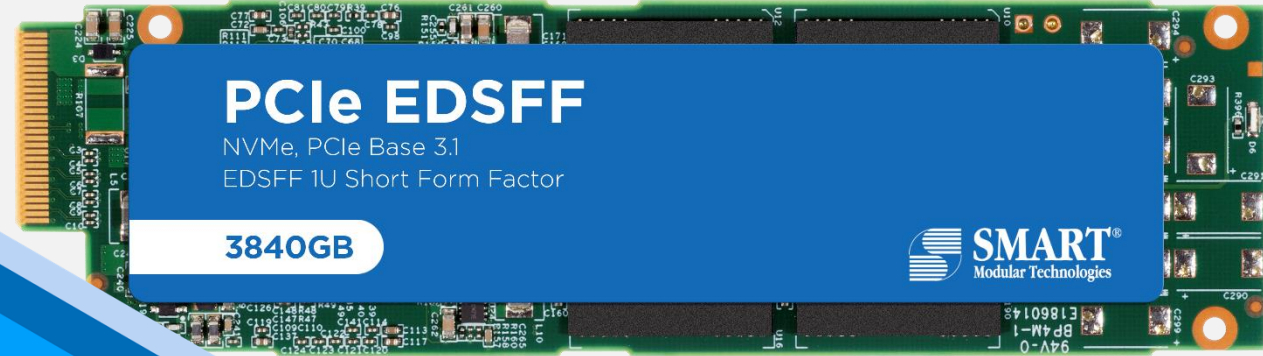
**Blue-Chip
Customer
Base**

ACROSS DIVERSE MARKETS



Internally Developed Flash Firmware

- Internal firmware capabilities
- Product customization capability from concept to production with quick turnaround time
- SMART specific S.M.A.R.T. attributes
- Robust electrical and PCB design
- Thermal performance optimization
- Complete failure analysis capability
- NAND agnostic



Market Trends Impacting Specialty Memory and Storage

SMART has experts that can help you navigate these complicated projects

ARTIFICIAL INTELLIGENCE MACHINE LEARNING AND HPC

- Systems architects need to understand these standards and how they will affect future system design
- Ecosystem support needs to be well understood

INDUSTRIAL INTERNET OF THINGS

- Customers need to understand the best fit for different applications:
- Density, power, and thermals also need to be considered

HETEROGENEOUS COMPUTING

- More flexible solutions are becoming possible
- Expertise needed for complex architectures and infrastructures the data near the location where it is generated

CLOUD COMPUTING

- Need to consider the use of enterprise grade products for high reliability
- Need to consider security, encryption, crash protection option to protect data



Compute Anywhere – The Opportunity

SMART can help you every step of the way!

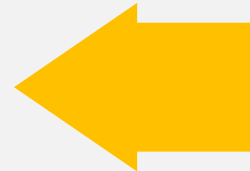
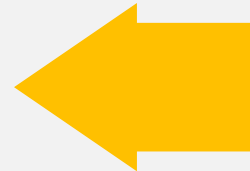
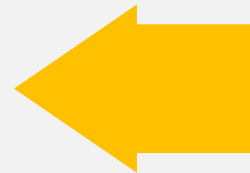
MARKET TRENDS

- Data is growing exponentially
- Data needs to be processed quickly
- Systems becoming denser
- Systems deployed under harsh conditions
- Need 24/7 long life operation

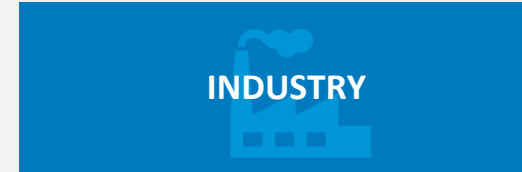
SPECIALTY MEMORY STORAGE & REQUIREMENTS

- Quality
- Reliability
- Performance
- Rugged
- Data Protection
- Tailored
- Long Life
- Best Fit
- Capacity

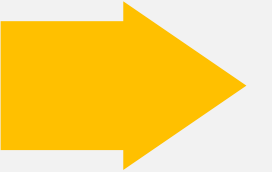
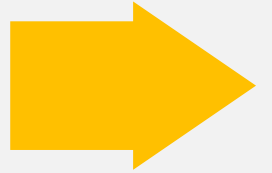
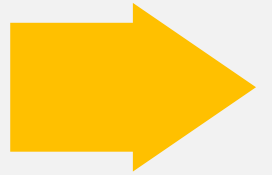
CORE



NEAR EDGE



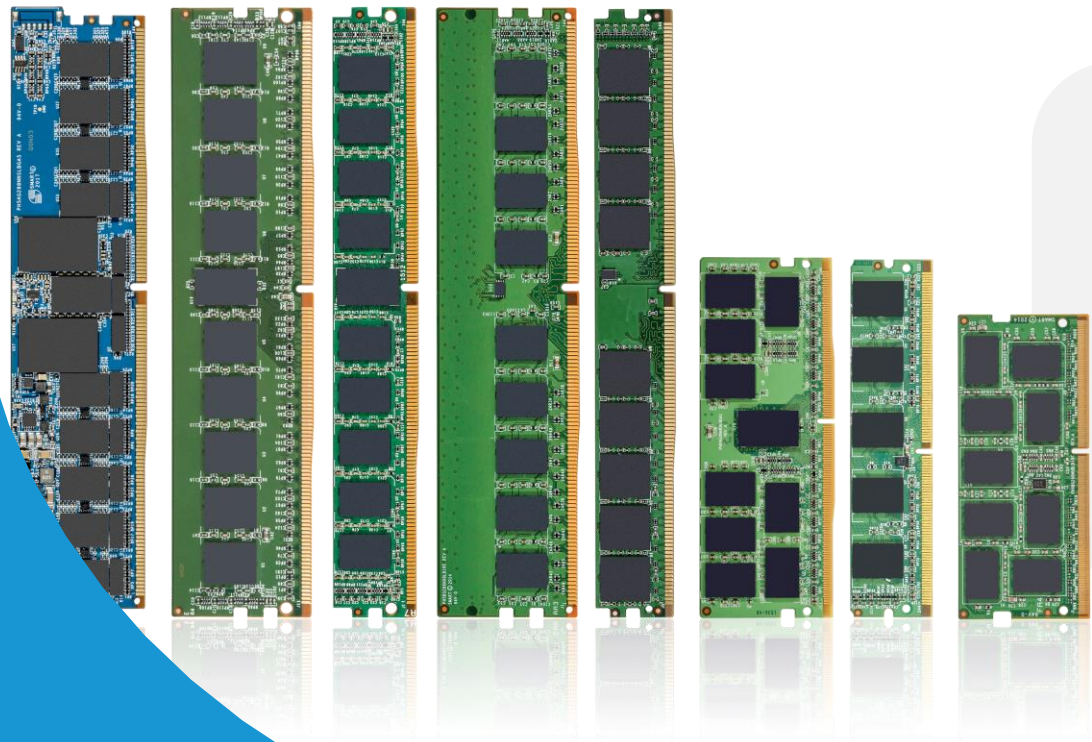
FAR EDGE



DuraMemory

TM

ENTERPRISE MEMORY | RUGGED MEMORY | ADVANCED MEMORY



- DRAM products designed and manufactured to meet demanding industrial workloads
- DuraMemory products perform to the highest degree of durability and reliability
- Differentiated value-adds: Enterprise Memory testing, 30µin Gold Finger, I-temp, Underfill, Conformal Coating

DuraFlash

™

- Commitment to Flash products designed and manufactured for embedded applications
- Durable and reliable
- Differentiated value-add: burn-in, I-temp, optimized firmware



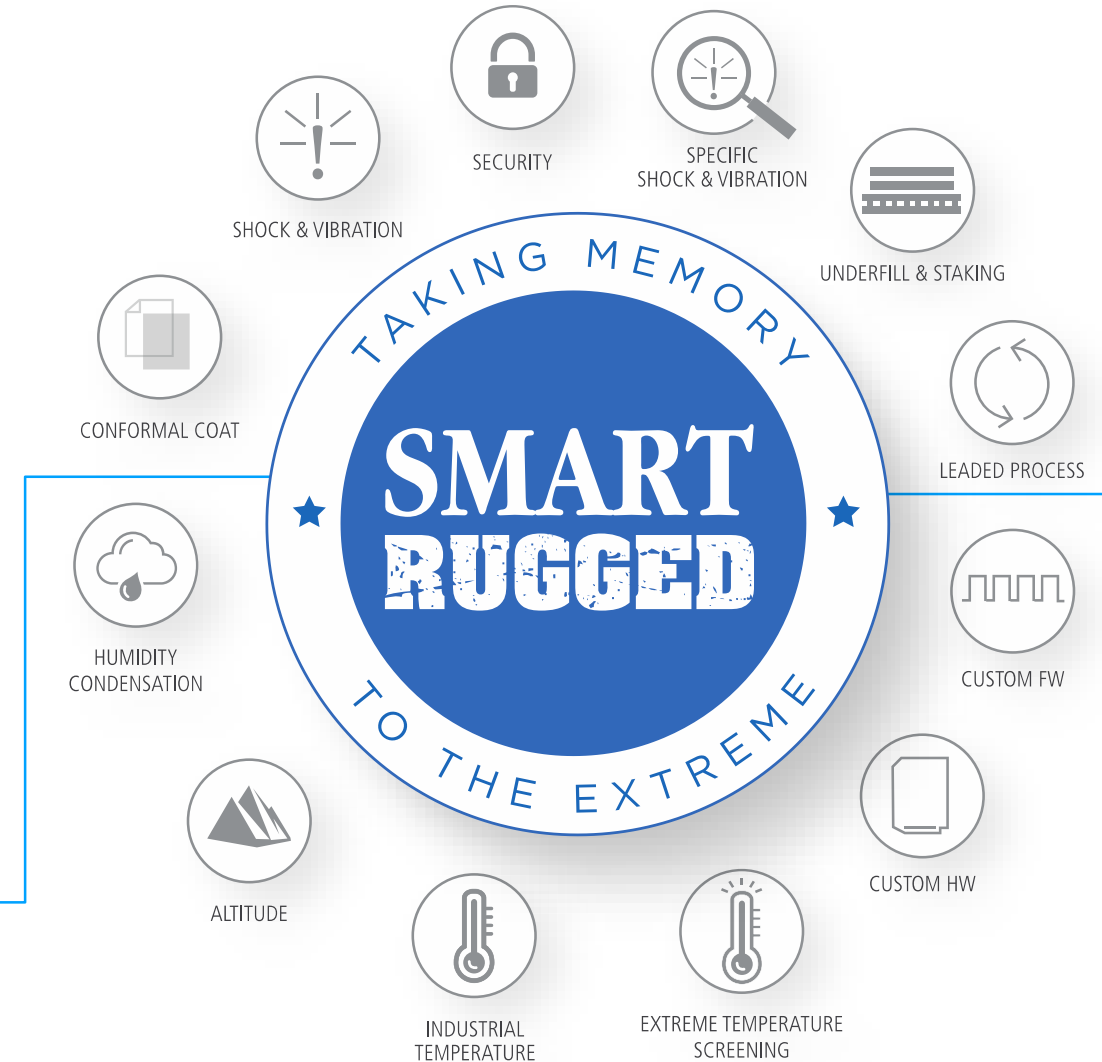
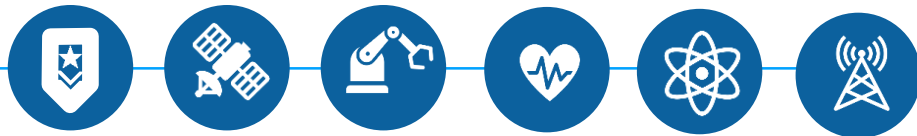
High-Capacity Rugged SSDs

Benefits and Features

Built for the harshest environments where
memory failure is simply not an option

Who it Serves:

Defense, Aerospace, Industrial Automation, Medical, Energy,
Telecommunications and other industries



End-to-end Solutions



Thank You!
Questions?

