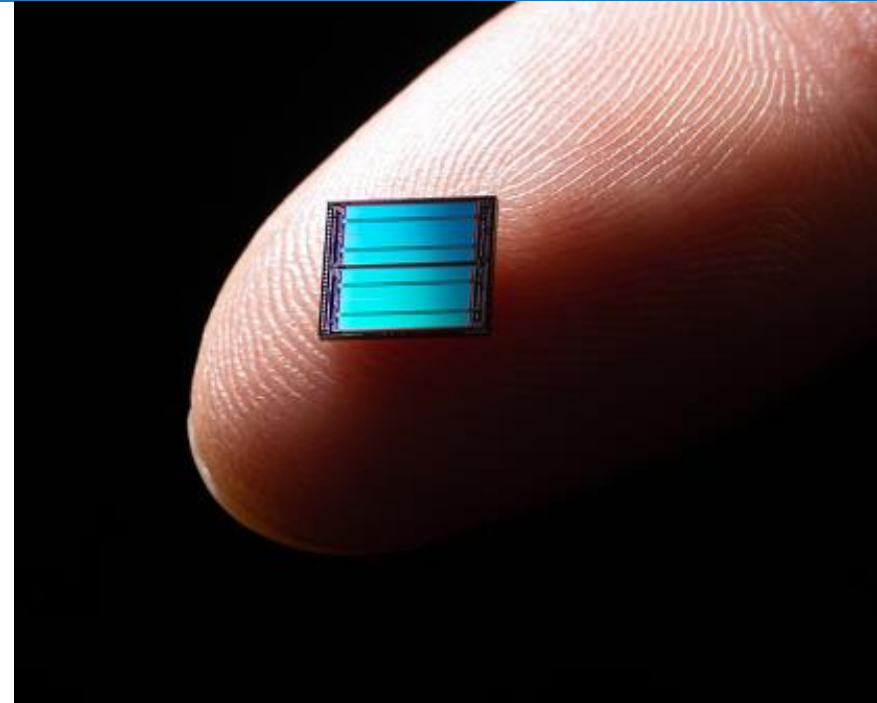




**SMART**semi<sup>TM</sup>

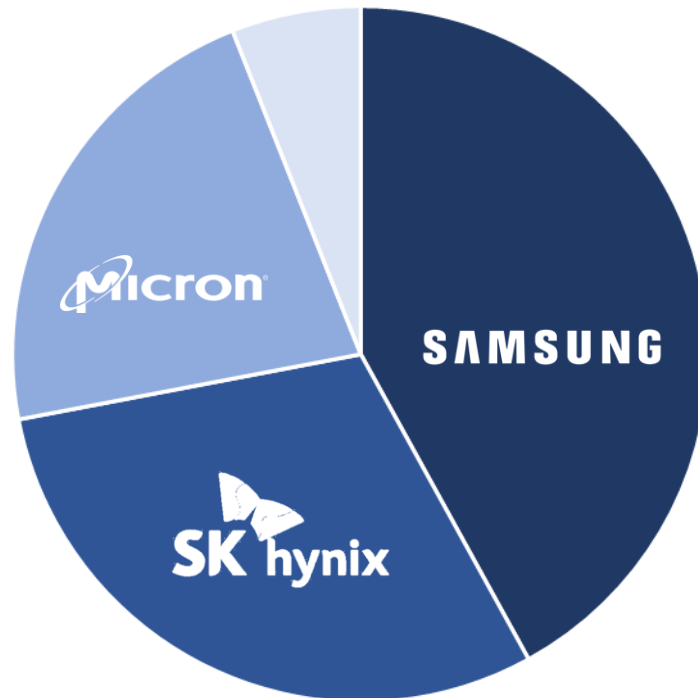
The “OTHER” memory supplier



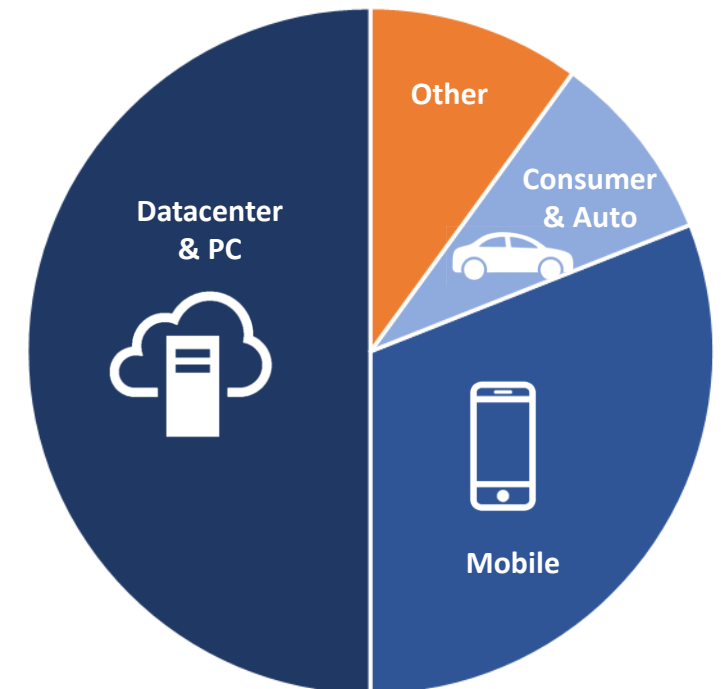
## The Challenge of being “Other”

### Tier 1 Memory suppliers focus on Primary Segments

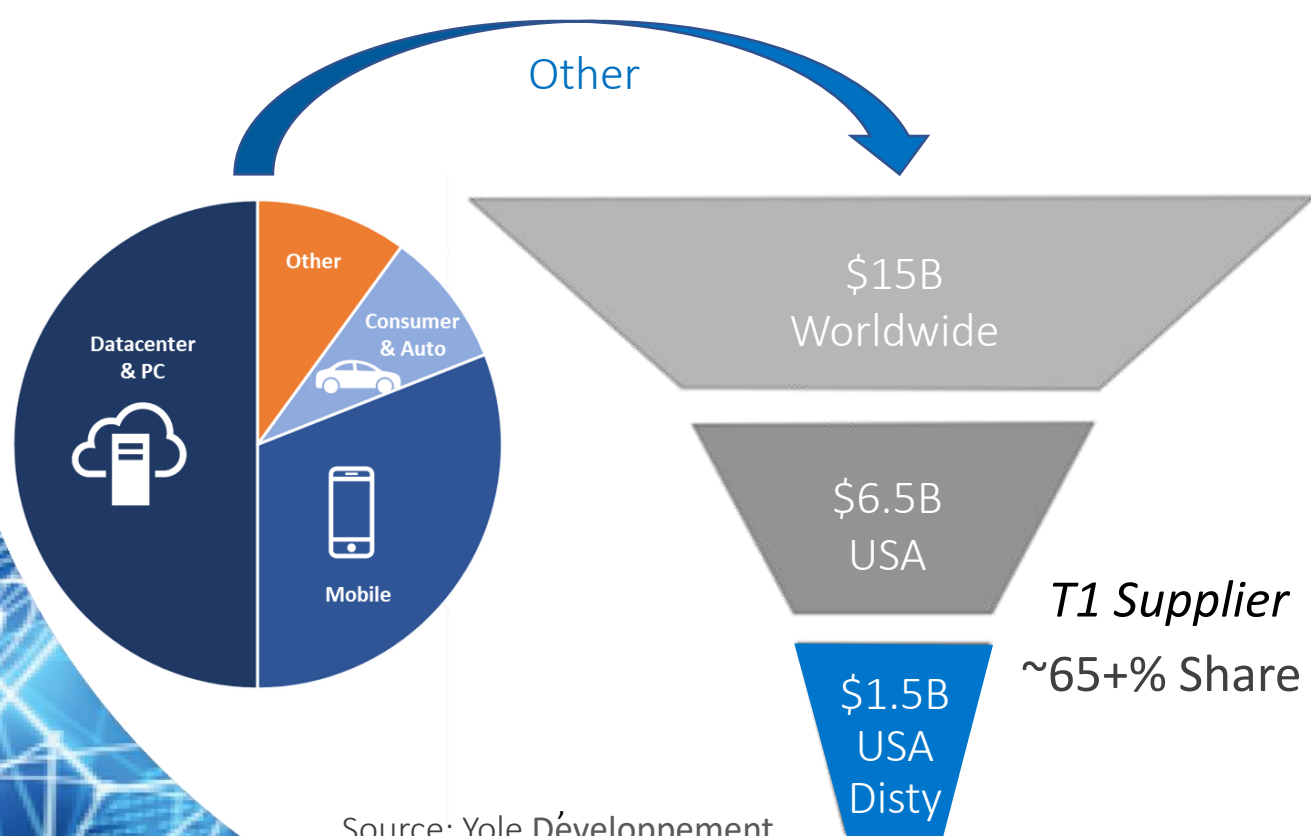
Major DRAM Suppliers  
~96% Share of DRAM Market



DRAM Demand Consolidated  
3 Primary Segments

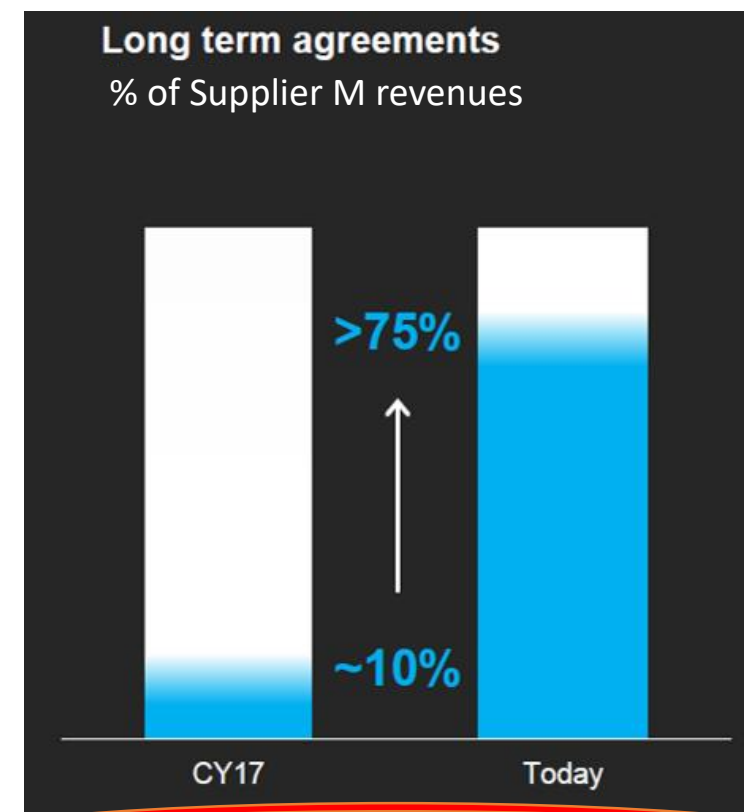


“Other” is Highly Dependent on a Single Tier 1 Supplier



Source: Yole Développement

Tier 1 Suppliers business structure is changing – Volume LTA's



Source: May 2, 2022 T1 Supplier Investor Presentation

## Supply Risk is Increasing



- Continuity of Supply
- Competitive Price
- Responsive Service
- Component Compatibility
- High Quality & Reliability
- Long-life Support
- Extended EOL Transition

# Introducing **SMART**semi

The “OTHER” memory supplier

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- 20+ years of success supporting customers with memory components.
- Committed to easing supply chain challenges.

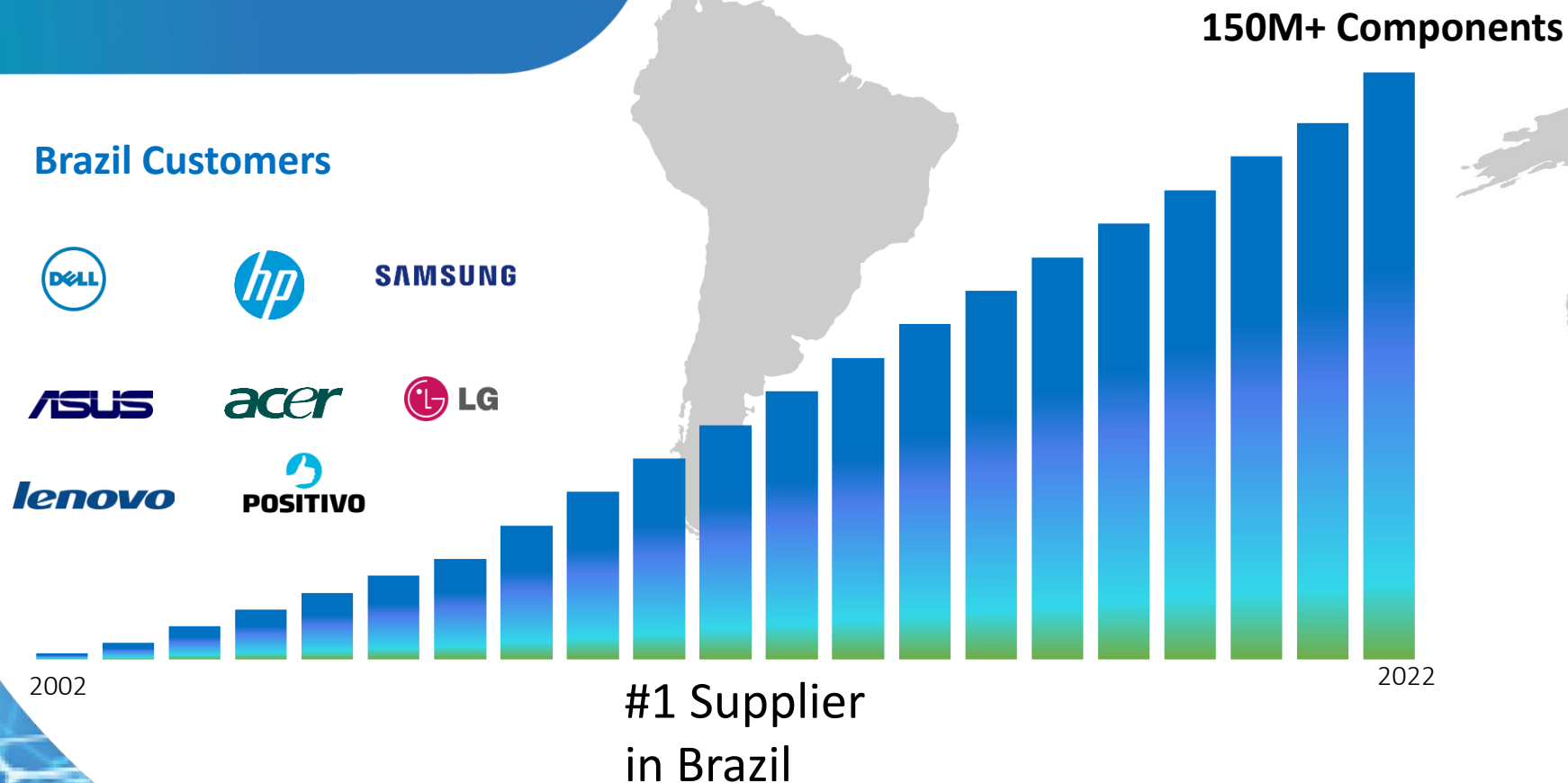


# World-Class Manufacturing

- \$300M Invested
- Production Capability:
  - Wafer Processing
  - Assembly
  - Packaging
  - Test
  - Burn-in
  - Marking
- Brazil Campus
  - 162,000 sq. ft. manufacturing area
  - 54,000 sq. ft. clean room area

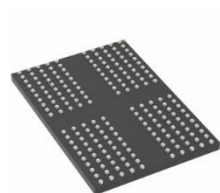


# Launching Our Next Phase: ... Coming to USA



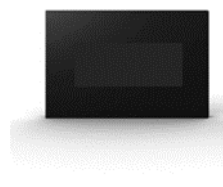
Now Expanding  
to North America

## Product Roadmap Overview



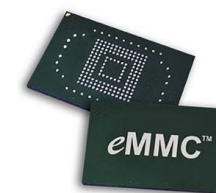
### DRAM

DDR2  
DDR3  
DDR4  
DDR5



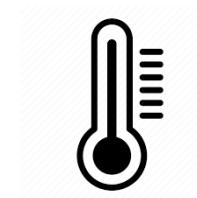
### Low Power DRAM – Coming soon

LPDDR4  
LPDDR5



### eMMC

4GB/8GB eMMC  
16GB/32GB eMMC



### Grades

Commercial  
Industrial  
Automotive



# DRAM Product Roadmap



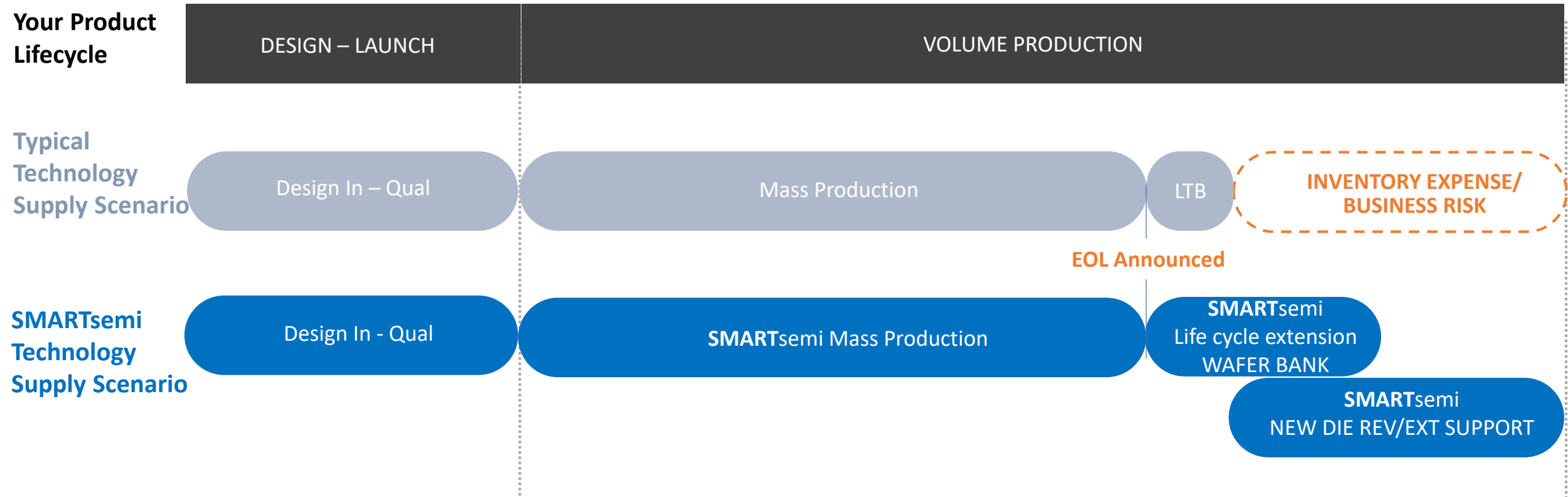
| Density      | Configuration & Package                           | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|--------------|---|------|------|------|------|------|------|------|
| DDR3<br>2Gb  | 128Mx16/256Mx8<br>1.35/1.5V 1866Mbps<br>96/78FBGA |      |      |      |      |      | TBD  |      |
| DDR3<br>4Gb  | 256Mx16/512Mx8<br>1.35/1.5V 1866Mbps<br>96/78FBGA |      |      |      |      |      | TBD  |      |
| DDR4<br>4Gb  | 256Mx16/512Mx8,<br>1.2V,<br>2666Mbps,96/78FBGA    |      |      |      |      |      |      |      |
| DDR4<br>8Gb  | 512Mx16/1Gx8, 1.2V,<br>3200Mbps,96/78FBGA         |      |      |      |      |      |      |      |
| DDR4<br>16Gb | 1Gx16/2Gx8, 1.2V,<br>3200Mbps,96/78FBGA           |      |      |      |      |      |      |      |

# eMMC Product Roadmap



| Capacity   | Configuration & Package                               | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 |
|------------|---|------|------|------|------|------|------|------|
| eMMC 4GB   | X1/x4/x8 3.3V/1.8V<br>200MHz 153-FBGA<br>-40-85C      |      |      |      |      |      | TBD  |      |
| eMMC 8GB   | X1/x4/x8 3.3V/1.8V<br>200MHz 153-FBGA<br>-40-85C      |      |      |      |      |      |      | TBD  |
| eMMC 16GB  | X1/x4/x8 3.3V/1.8V<br>200MHz 153-FBGA<br>-40-85C/105C |      |      |      |      |      |      |      |
| eMMC 32GB  | X1/x4/x8 3.3V/1.8V<br>200MHz 153-FBGA<br>-40-85C      |      |      |      |      |      |      |      |
| eMMC 64GB  | X1/x4/x8 3.3V/1.8V<br>200MHz 153-FBGA<br>-40-85C      |      |      |      |      |      |      |      |
| eMMC 128GB | X1/x4/x8 3.3V/1.8V<br>200MHz 153-FBGA<br>-40-85C      |      |      |      |      |      |      |      |

# Long Lifecycle Support Approach





## Simplifying Design In, Qualification, and Sourcing



### Search:

- Industry part number
- Key parameters
- SMARTsemi part number



### Select:

- Datasheets
- Qualification reports
- ECAD and component models



### Source:

- Real-time Inventory
- SMARTsemi
- Authorized distributors

Where to find us:







**SMART**semi<sup>TM</sup>

[www.smartsemi.com](http://www.smartsemi.com)

