



XTX Memory Product Roadmap

Your Professional Memory Solution Partner

2026 Q1



SPI NOR

- 3.3V/1.8V/Wide
- 2Mbit-2Gbit
- SOP8/SOP16
- DFN8/DFN6
- WSON8
- BGA24 6x8mm
- Standard/Dual/Quad



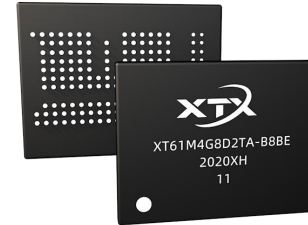
SPI NAND

- 3.3V/1.8V
- 1Gbit-8Gbit
- WSON8 8x6mm
- LGA8 8x6mm
- LGA8 6x5mm
- BGA24 6x8mm
- Standard/Dual/Quad



PPI NAND

- 3.3V/1.8V
- 1Gbit-8Gbit
- BGA24 6x8mm



NAND MCP

- 1.8V
- SLC + LPDDR2/4X
- NAND 1Gbit-4Gbit
- + DRAM 1Gbit-4Gbit
- BGA162 10.5x8mm
- BGA149 9.5x8mm



SD NAND

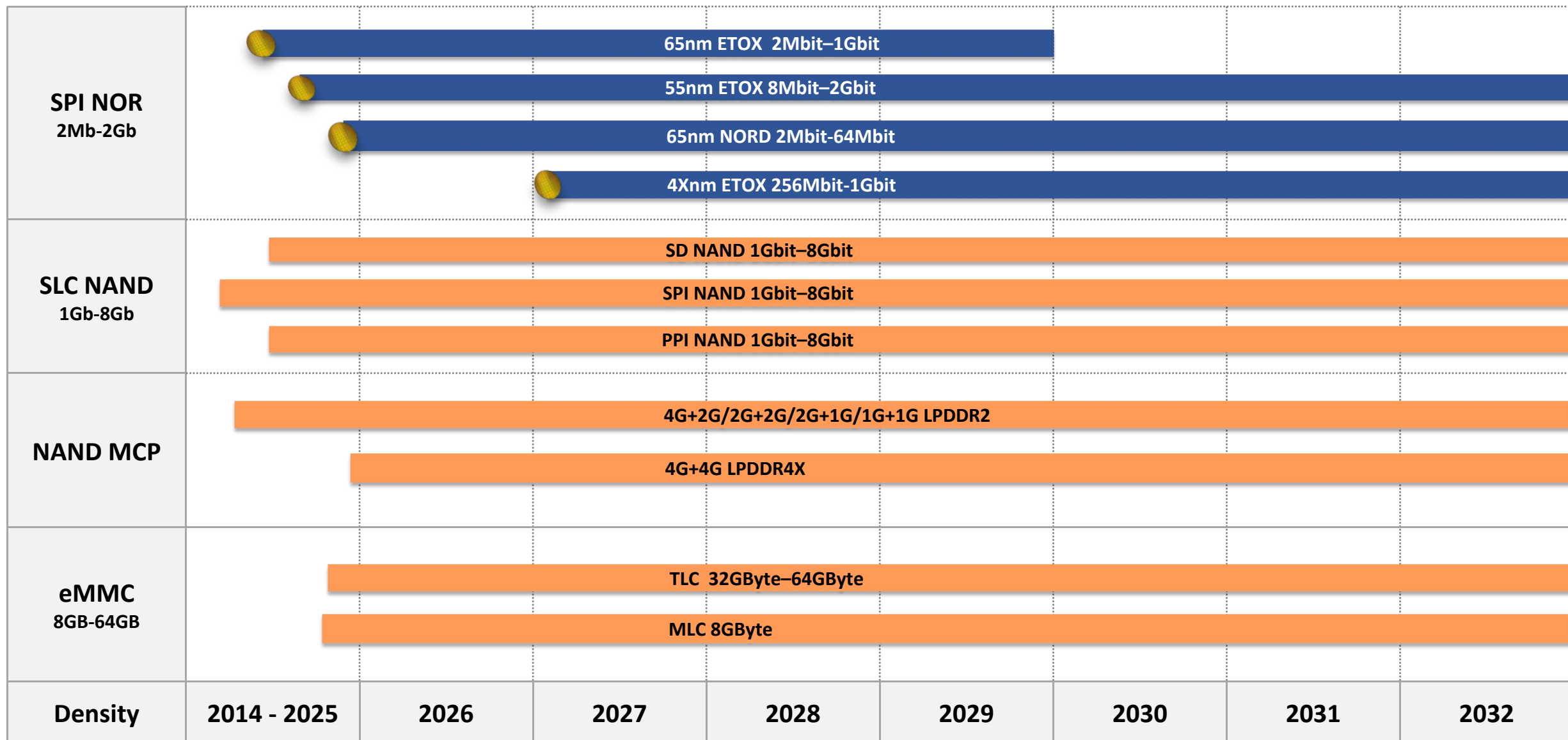
- 3.3V/1.8V
- 1Gbit-8Gbit
- WSON8 8x6mm
- LGA8 6x5mm
- SD 2.0



eMMC

- VCC 3.3V
- VCCQ 3.3V/1.8V
- 8GByte-64GByte
- BGA153 11.5x13mm
- eMMC 5.1

Memory Roadmap



>> SPI NOR Flash Portfolio



Product	ETOX				NORD	
Voltage/ Density	3.3V (2.7V-3.6V) & Wide (1.65V-3.6V)		1.8V (1.65V-2.0V)		Wide(1.65V-3.6V)	1.8V/1.2V (1.1V-2.0V)
	65nm	55nm/4Xnm	65nm	55nm	65nm	65nm
2Mbit	XT25F/W02E				XTD25W02A/C*	
4Mbit	XT25F/W04D				XTD25W04A*	
8Mbit		XT25F/W08F	XT25Q08D	XT25Q08F	XTD25W08A	XTD25Q08A
16Mbit		XT25F/W16F-S*	XT25Q16D	XT25Q16F	XTD25W16A	XTD25Q16A
32Mbit		XT25F/W32F*			XTD25W32A	XTD25Q32A
64Mbit		XT25F64F*		XT25Q64F*	XTD25W64A	XTD25Q64A
128Mbit		XT25F128F-W* XT25F128F*		XT25Q128F-W*		
256Mbit	XT25F256B*	XT25F256F		XT25Q256F*		
512Mbit	XT25W512B*	XT55F512F		XT25Q512F*		
1Gbit	XT25W1GB*	XT55F1GF		XT55Q1GF*		
2Gbit				XT55Q2GF		

Confidential

Mass Production

Sample

Under Development

Under Planning

* = High Priority

= -40°C to +105°C
 = -40°C to +125°C

>> SLC NAND Flash Portfolio



Product	SPI NAND		PPI NAND		SD NAND	
Voltage/ Density	3.3V (2.7V-3.6V)	1.8V (1.7V-1.95V)	3.3V (2.7V-3.6V)	1.8V (1.7V-1.95V)	3.3V (2.7V-3.6V)	1.8V (1.7V-1.95V)
1Gbit	XT26G01C XT26G11C XT26G01D * XT26G11D * XT26G01F	XT26Q01D * XT26Q01F	PN27G01ABG * PN27G01BBG *		XTSDG01G *	XTSDQ01G *
2Gbit	XT26G02C XT26G02E XT26G02D * XT26G12D *	XT26Q02D * XT26Q12D *	PN27G02ABG * PN27G02BBG *	XT27Q02A8BF	XTSDG02G *	XTSDQ02G *
4Gbit	XT26G04C XT26G04D * XT26G14D XT26G04E	XT26Q04D * XT26Q14D *	PN27G04ABG * XT27G04A8BF XT27G04ABS XT27G04EBG	XT27Q04ABS* XT27Q04A8BF	XTSDG04G *	XTSDQ04G *
8Gbit	XT26G08D *	XT26Q18D *		XT27Q08ABS* XT27Q08EBS	XTSDG08G *	XTSDQ08G *

Confidential

Mass Production

Sample

Under Development

EOL

* = High Priority

For 14bit ECC requirement on 3.3V/1.8V SPI NAND products, contact XTX sales

Product	NAND MCP	
Voltage/ Density	1.8V LPDDR2	1.8/1.8/1.1/0.6V LPDDR4X
1Gbit NAND + 1Gbit DRAM	XT61M1G8C2TM-B8BEA *	
2Gbit NAND + 1Gbit DRAM	XT61M2G8C2TM-B8BEA *	
2Gbit NAND + 2Gbit DRAM	XT61M2G8D2TA-B8BEA * XT61M2G8D2TA-B8BIA	
4Gbit NAND + 2Gbit DRAM	XT61M4G8D2TA-B8BEA * XT61M4G8D2TA-B8BIA	
4Gbit NAND + 4Gbit DRAM		XT63M4G8E6MU-CDBIA *

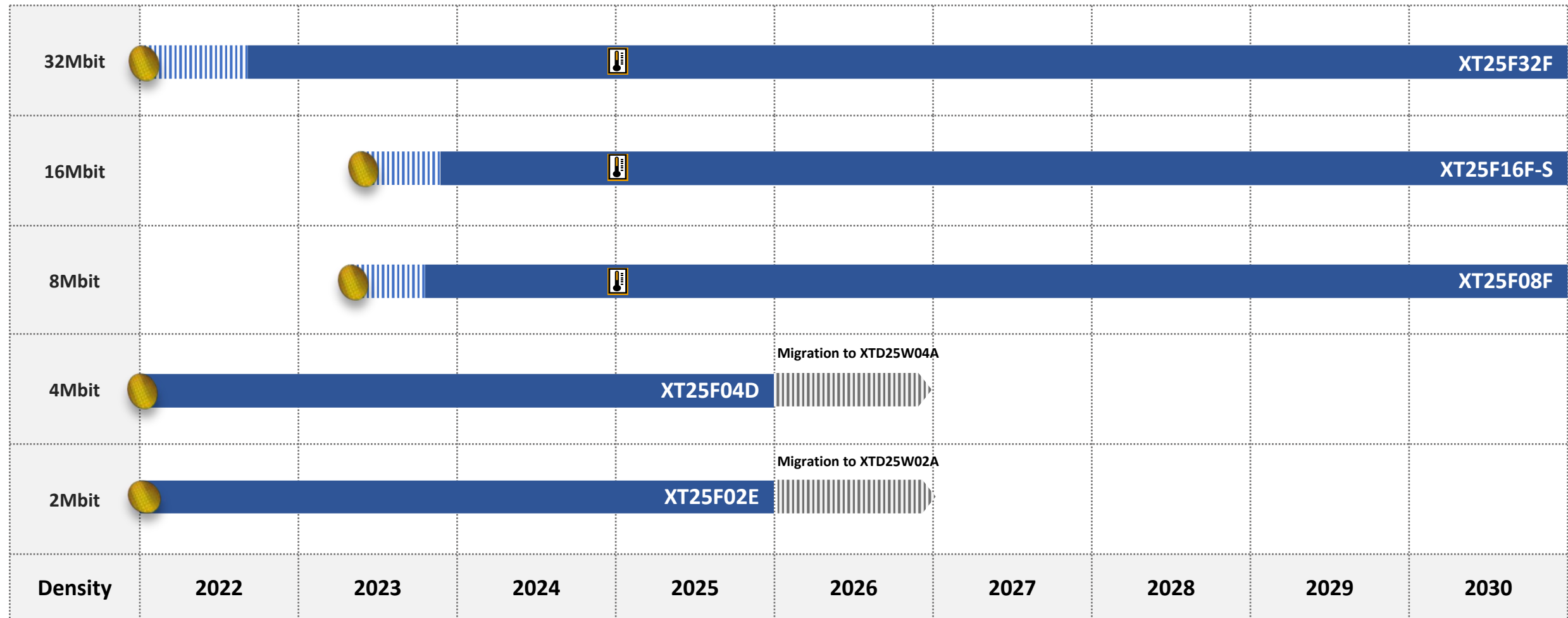
Product	eMMC
Voltage/ Density	3.3V (VCC) 3.3V/1.8V (VCCQ)
8GByte	XT28EG08GA1SLECGA *
32GByte	XT28EG32GA2TEEIGA
64GByte	XT28EG64GA2YUECGA

Product Code	Product Description
XT25F/W/Q	Serial NOR Flash 3.3V/Wide Voltage/1.8V
XT26G/Q	Serial SLC NAND Flash 3.3V/1.8V
XT27G/Q, PN27G	Parallel NAND Flash 3.3V/1.8V
XTSDG/Q	SD2.0 SLC NAND Flash 3.3V/1.8V
XT61M/XT63M	NAND MCP (SLC+LPDDR2) 1.8V / (SLC+LPDDR4X) 1.8V
XT28EG	eMMC5.1 3.3V

- Industry Standard 25 Architecture SPI NOR Flash
- Ideal memory solution for code and data storage, capable of XIP (Execute In Place)
- High performance with Standard, Dual & Quad I/O capability, DTR supported
- Flexible 4K-byte sector architecture for efficient data management
- High endurance with up to 100K P/E cycles
- Low-pin-count serial interface for reduced overall cost
- Compact design suitable for wearable and consumer devices
- UID, CID, OTP, and sector protection to ensure code integrity
- Density range from 2Mbit to 2Gbit (refer to roadmap schedule)
- Full voltage range: 1.65 ~ 2.0V, 2.7 ~ 3.6V / 2.3 ~ 3.6V, 1.65 ~ 3.6V
- Temperature ranges: Industrial Level: -40°C ~ 85°C; Industrial Plus Level: -40°C ~ 105°C; Industrial Ultra Level: -40°C ~ 125°C
- Small package options: DFN6 1.2x0.7x0.40mm, DFN6 1.2x1.2x0.40mm, DFN8 2x3x0.40mm, WLCSP



>> SPI NOR Flash – ETOX 3.3V Series



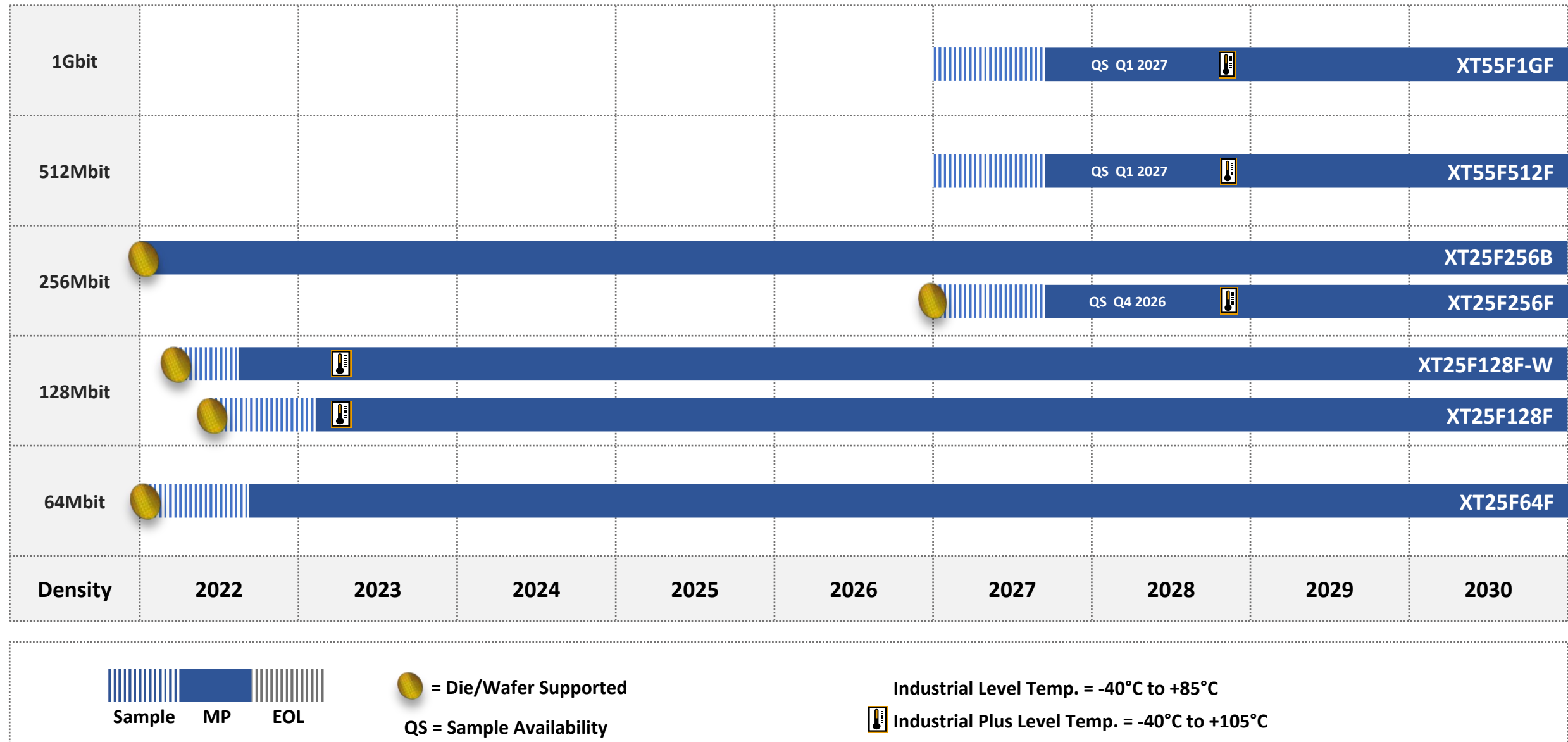
Sample
 MP
 EOL

= Die/Wafer Supported

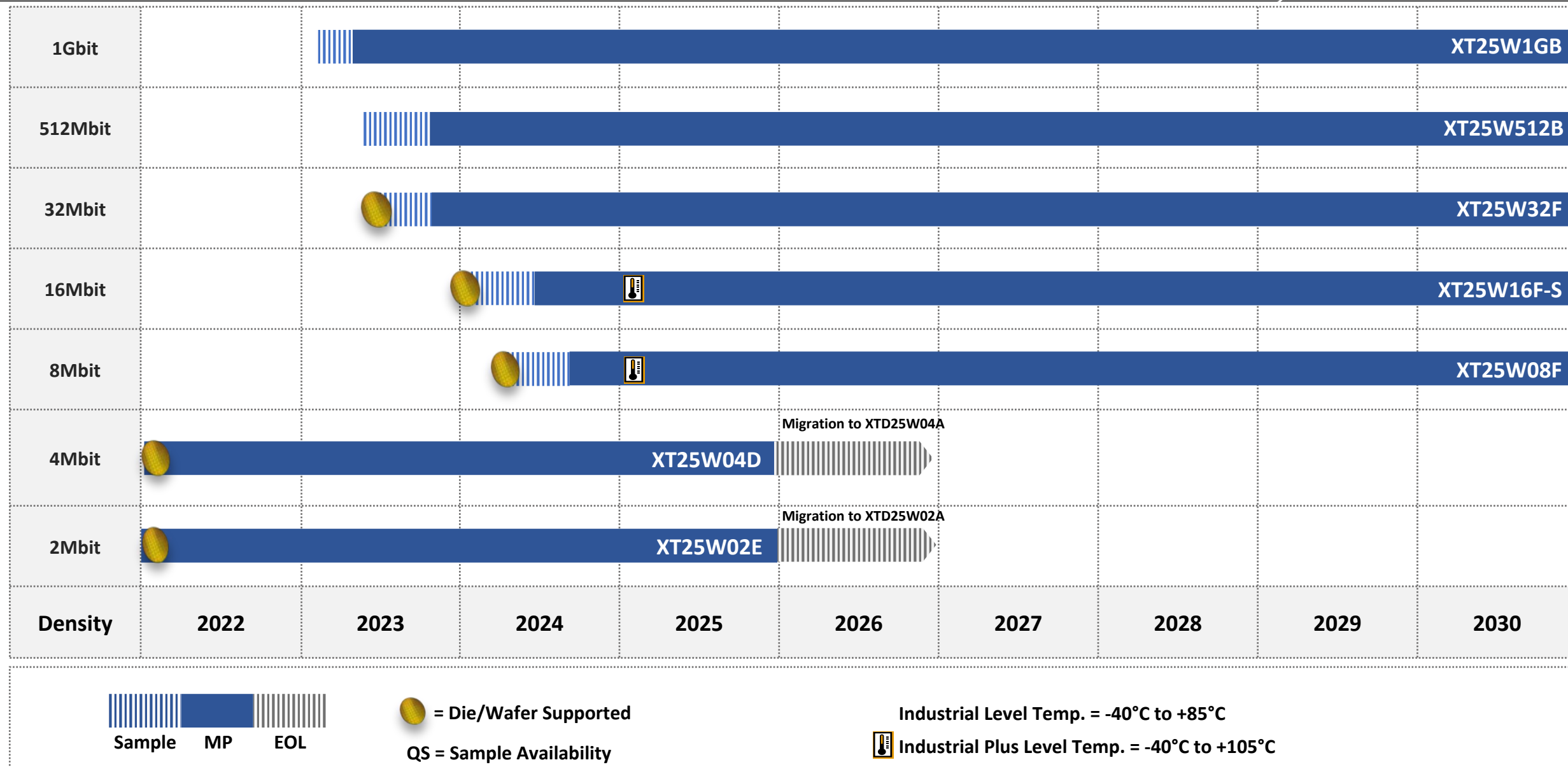
Industrial Level Temp. = -40°C to +85°C

Industrial Plus Level Temp. = -40°C to +105°C

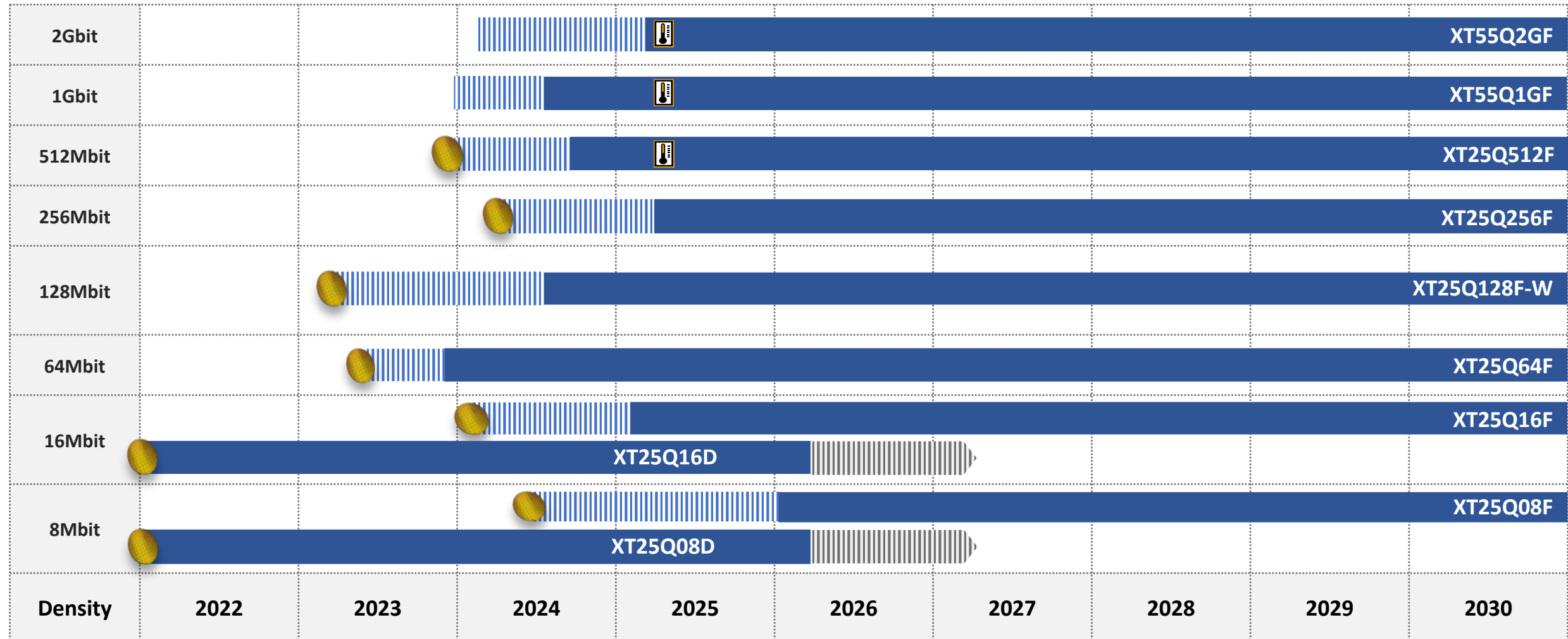
>> SPI NOR Flash – ETOX 3.3V Series



>> SPI NOR Flash – ETOX Wide Voltage Series



>> SPI NOR Flash – ETOX 1.8V Series

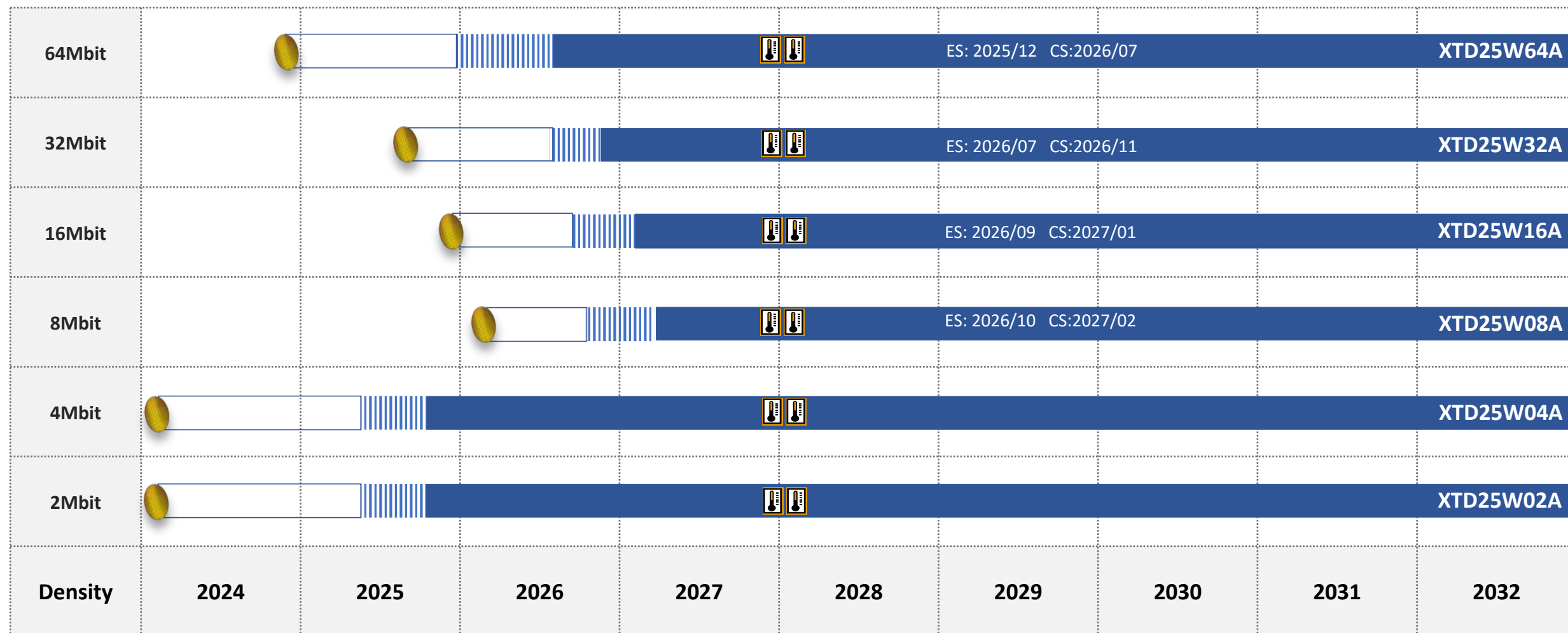


Sample
 MP
 EOL

= Die/Wafer Supported
 QS = Sample Availability

Industrial Level Temp. = -40°C to +85°C
 Industrial Plus Level Temp. = -40°C to +105°C

» SPI NOR Flash – NORD Wide Series (1.65V-3.6V)



UD
 Sample
 MP
 EOL

= Die/Wafer Supported

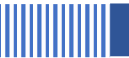
Industrial Level Temp. = -40°C to +85°C

Industrial Plus Level Temp. = -40°C to +105°C

Industrial Ultra Level Temp. = -40°C to +125°C

» SPI NOR Flash – NORD 1.8V Series (1.1V-2.0V)



64Mbit							 ES: 2026/12 CS:2027/04	XTD25Q64A
32Mbit							 ES: 2027/01 CS:2027/05	XTD25Q32A
16Mbit							 ES: 2027/03 CS:2027/07	XTD25Q16A
8Mbit							 ES: 2027/03 CS:2027/07	XTD25Q08A
Density	2025	2026	2027	2028	2029	2030	2031	2032



 = Die/Wafer Supported

Industrial Level Temp. = -40°C to +85°C

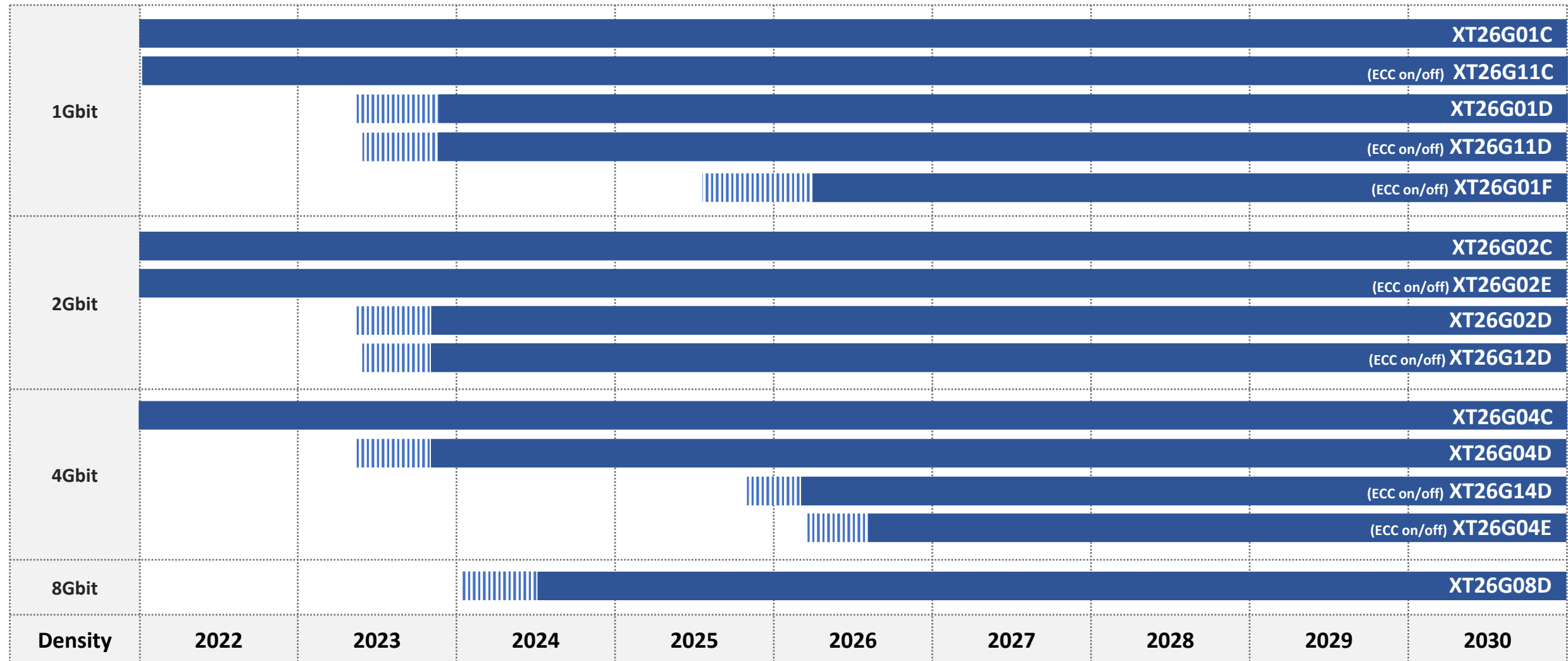
 Industrial Plus Level Temp. = -40°C to +105°C

 Industrial Ultra Level Temp. = -40°C to +125°C

- Mass-storage solution with lower cost per bit than NOR Flash
- High density with fewer pin counts
- High performance with embedded SPI controller, Quad I/O - 480Mbits/s
- Fast program and write speed
- Write & Block Protection, OTP, and UID for data security
- Low power operation for energy efficiency
- Density range from 1Gbit to 8Gbit
- Full voltage range: 1.7 ~ 1.95V, 2.7 ~ 3.6V
- Industrial grade temperature range: -40°C ~ 85°C
- Package options: WSON8 8x6mm, LGA8 8x6mm, LGA8 6x5mm, BGA24 8x6mm



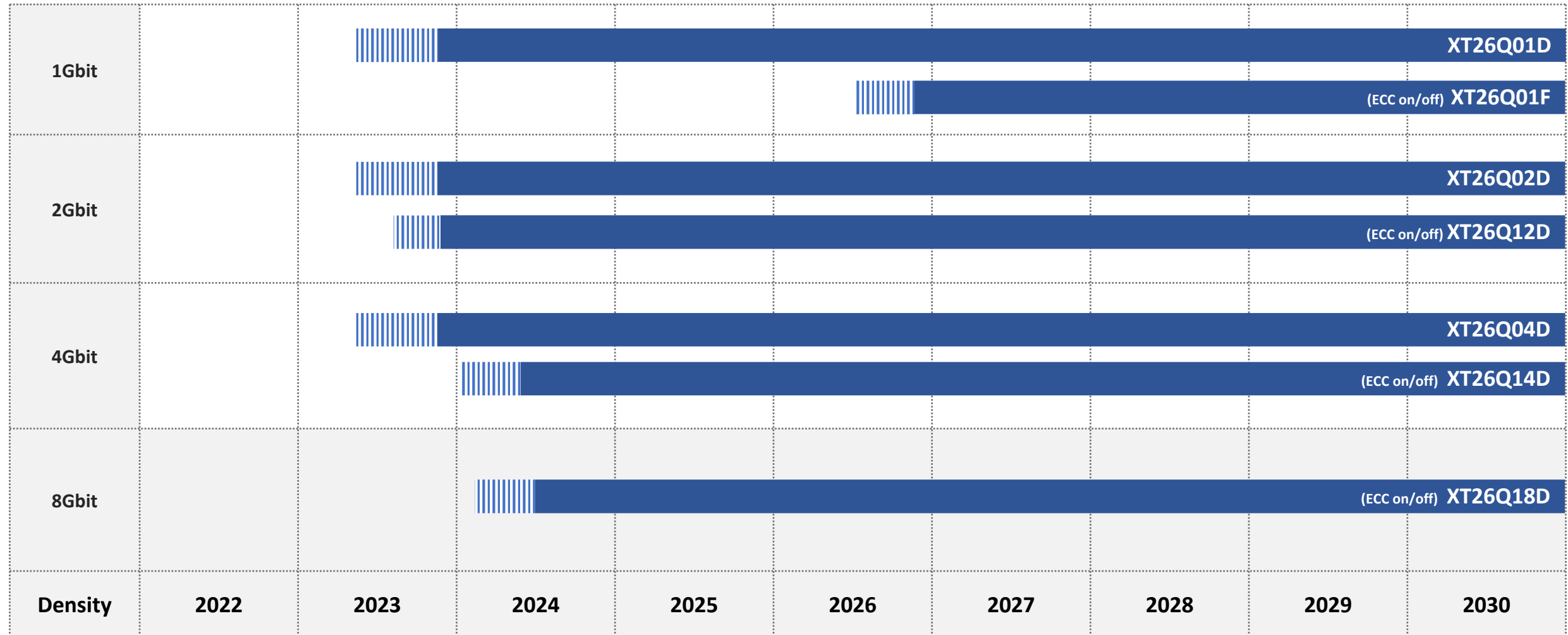
>> SPI NAND Flash - 3.3V Series



For 14bit ECC requirement on 3.3V/1.8V SPI NAND products, contact XTX sales

Industrial Level Temp. = -40°C to +85°C

» SPI NAND Flash - 1.8V Series



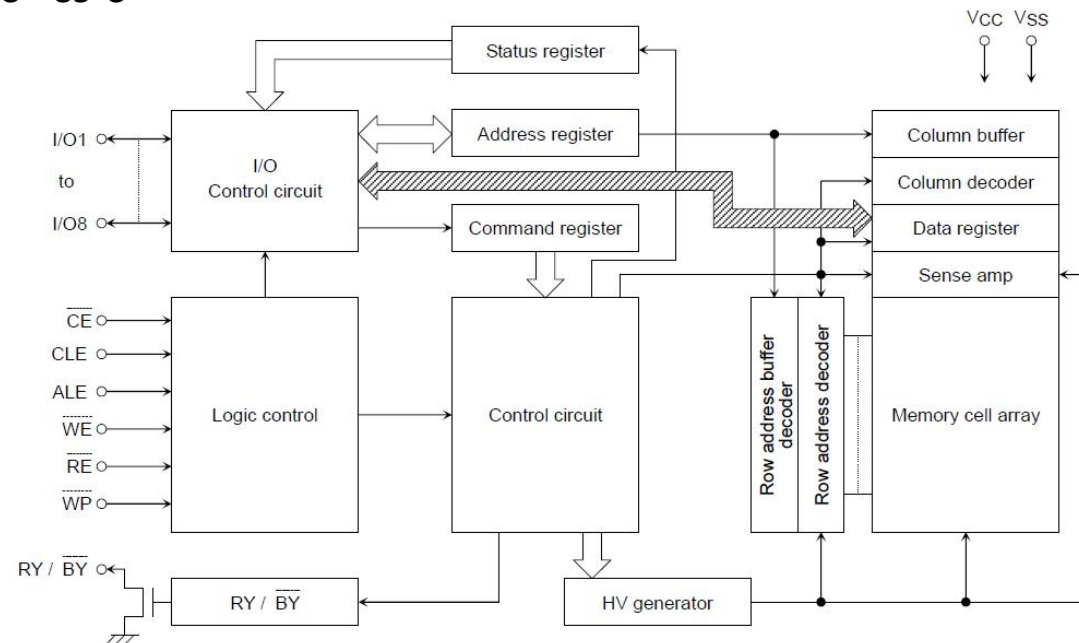
For 14bit ECC requirement on 3.3V/1.8V SPI NAND products, contact XTX sales

Industrial Level Temp. = -40°C to +85°C

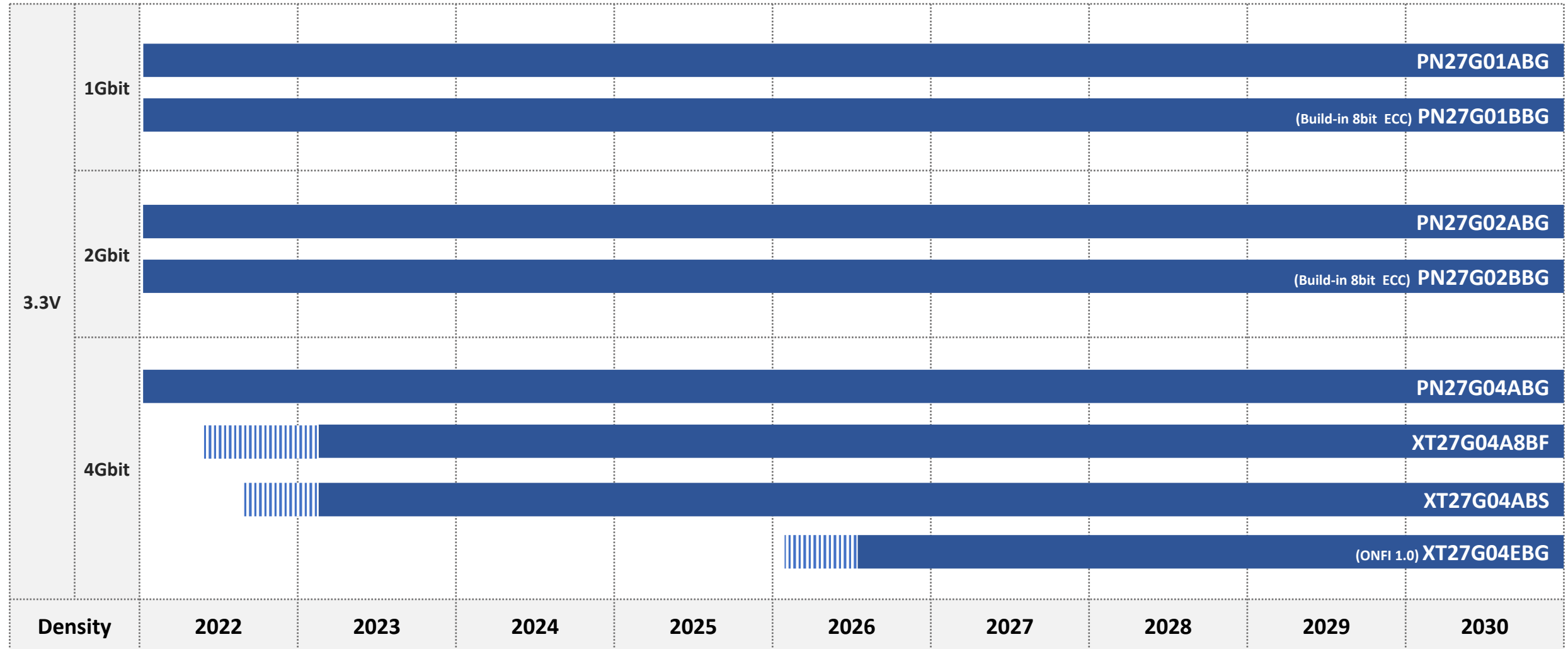
Parallel NAND Flash



- Utilizes 8 I/O pins for address, data input/output, and command inputs
- Flash densities range from 1Gbit to 8Gbit
- Full voltage range: 1.7 ~ 1.95V, 2.7 ~ 3.6V
- Smaller and lower pin-count package options available
- Package options: BGA24 8x6mm, BGA63 11x9mm, BGA67 8x6.5mm
- Industrial grade temperature range: -40°C ~ 85°C

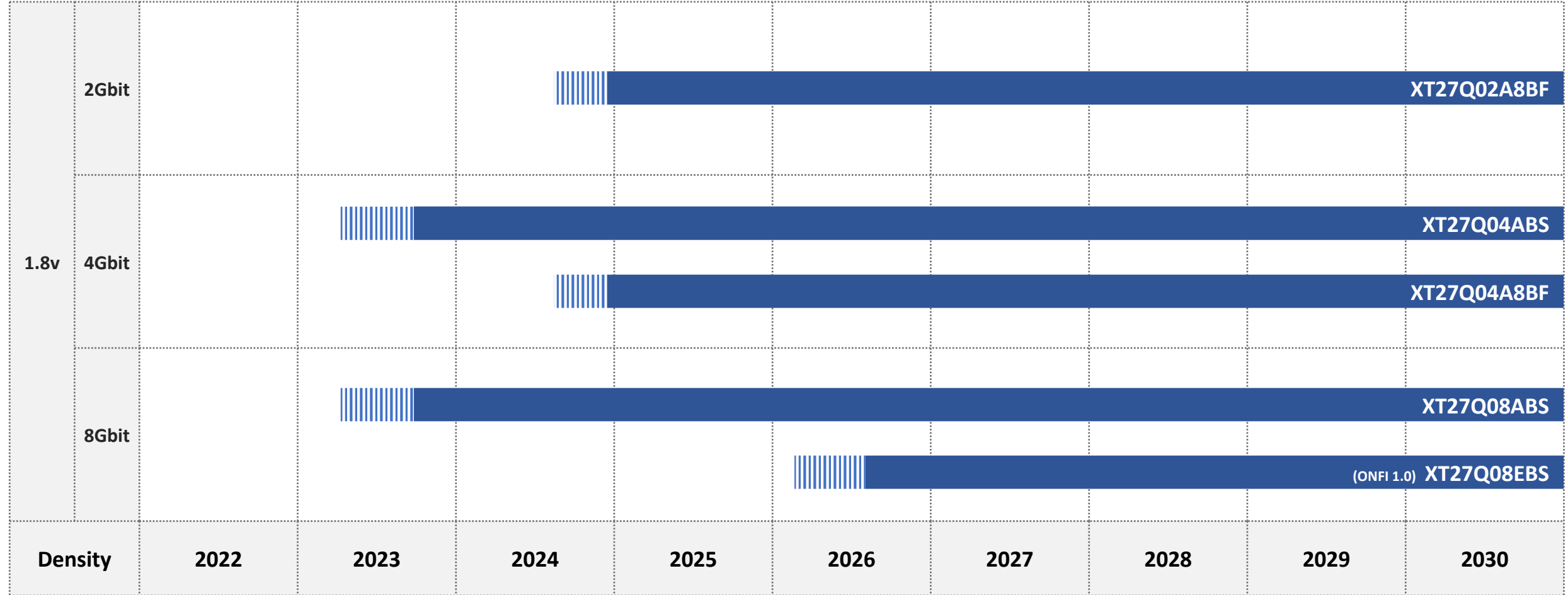


» Parallel NAND Flash - 3.3V Series



Industrial Level Temp. = -40°C to +85°C

Parallel NAND Flash - 1.8V Series

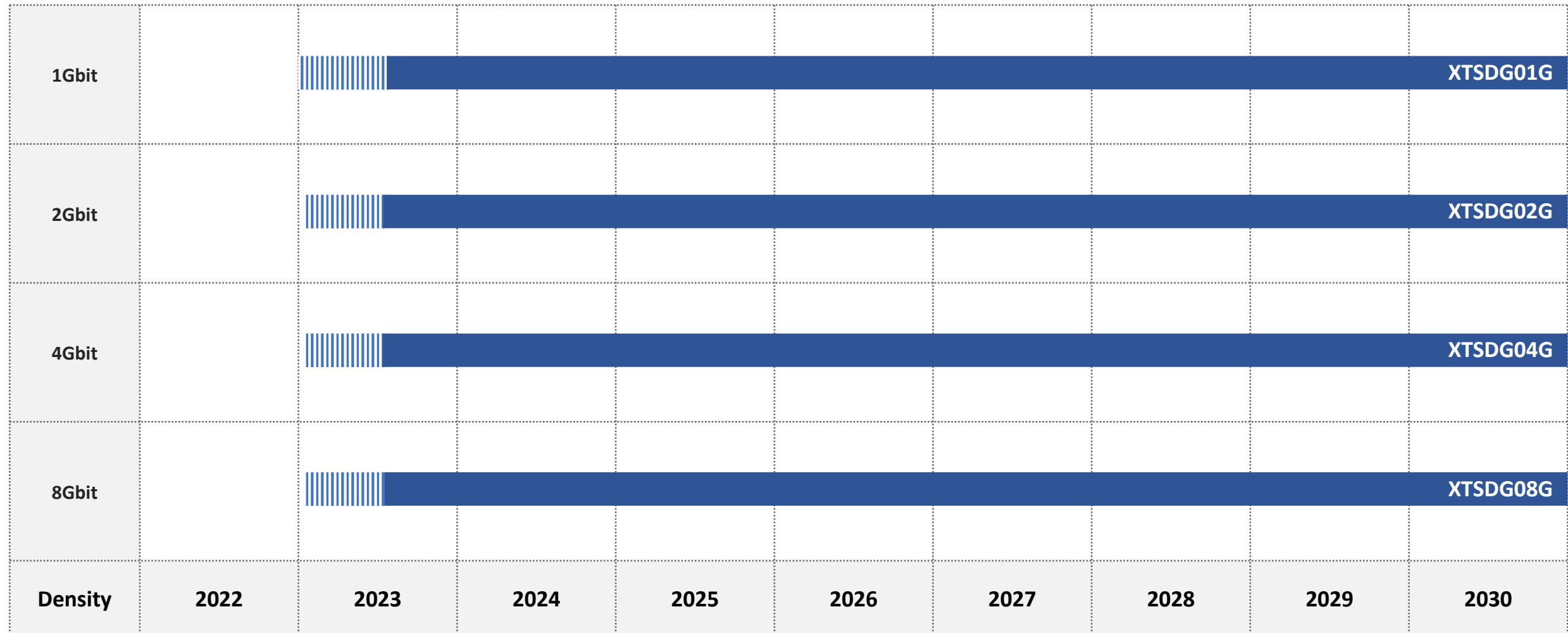


Industrial Level Temp. = -40°C to +85°C

- Low-cost solution for embedded storage in a compact design
- High performance with embedded SD controller and 3.3V/1.8V supply voltage
- Supports up to 50MHz clock frequency
- Ideal for consumer electronic devices, including toys, Bluetooth, educational, and wearable devices
- Density range from 1Gbit to 8Gbit
- SD 2.0 / SPI compliant for broad compatibility
- Package options: WSON8 8x6mm, LGA8 6x5mm
- Operating temperature range: -40°C ~ 85°C

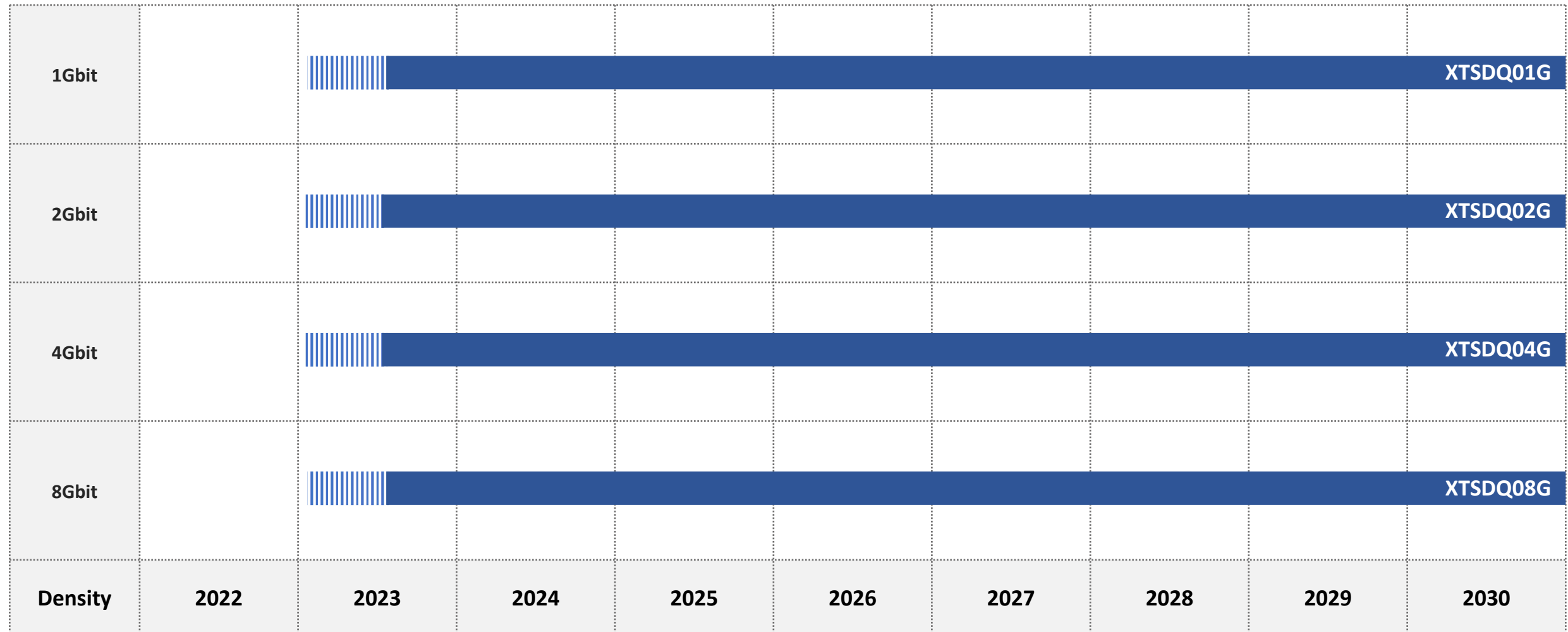


>> SD NAND Flash - 3.3V Series



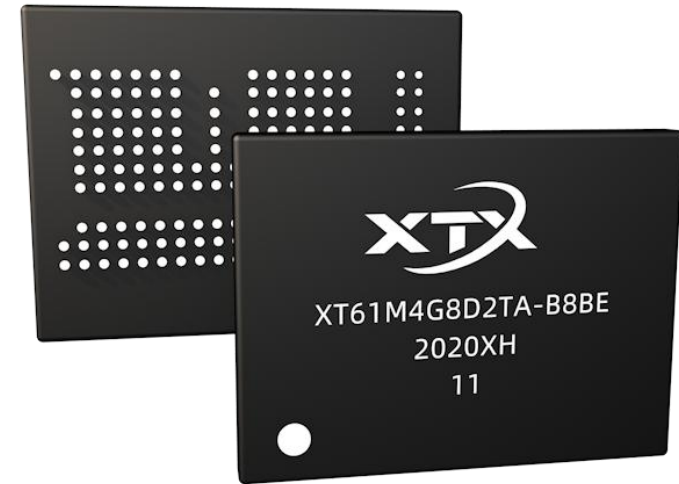
Industrial Level Temp. = -40°C to +85°C

>> SD NAND Flash - 1.8V Series

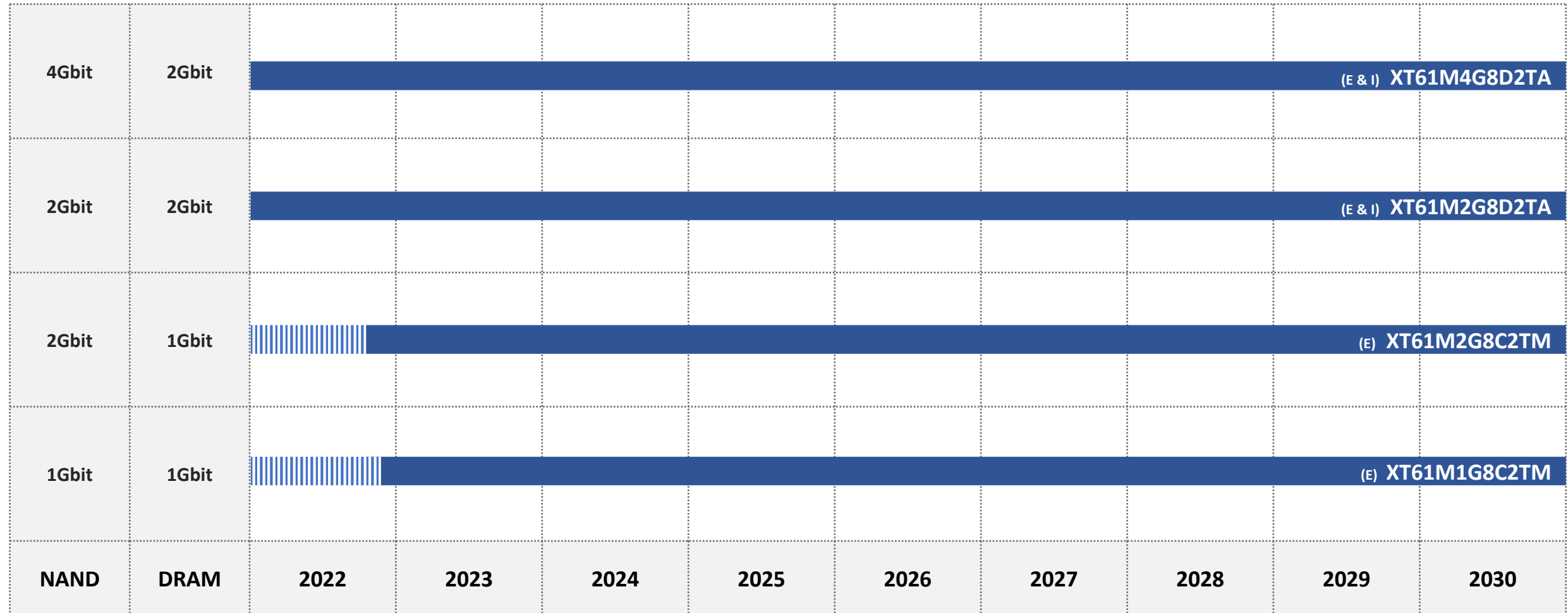


Industrial Level Temp. = -40°C to +85°C

- High performance for space-constrained applications
- High reliability with SLC NAND technology
- Saves board space with compact design
- Low power and low voltage operation
- Long life cycle > 5 years and > 10 years data retention
- NAND Flash densities from 1Gbit to 4Gbit
- Package options: BGA162 10.5x8mm, BGA149 9.5x8mm
- Temperature ranges: Extended Grade (-30°C ~ 85°C), Industrial Grade (-40°C ~ 85°C)

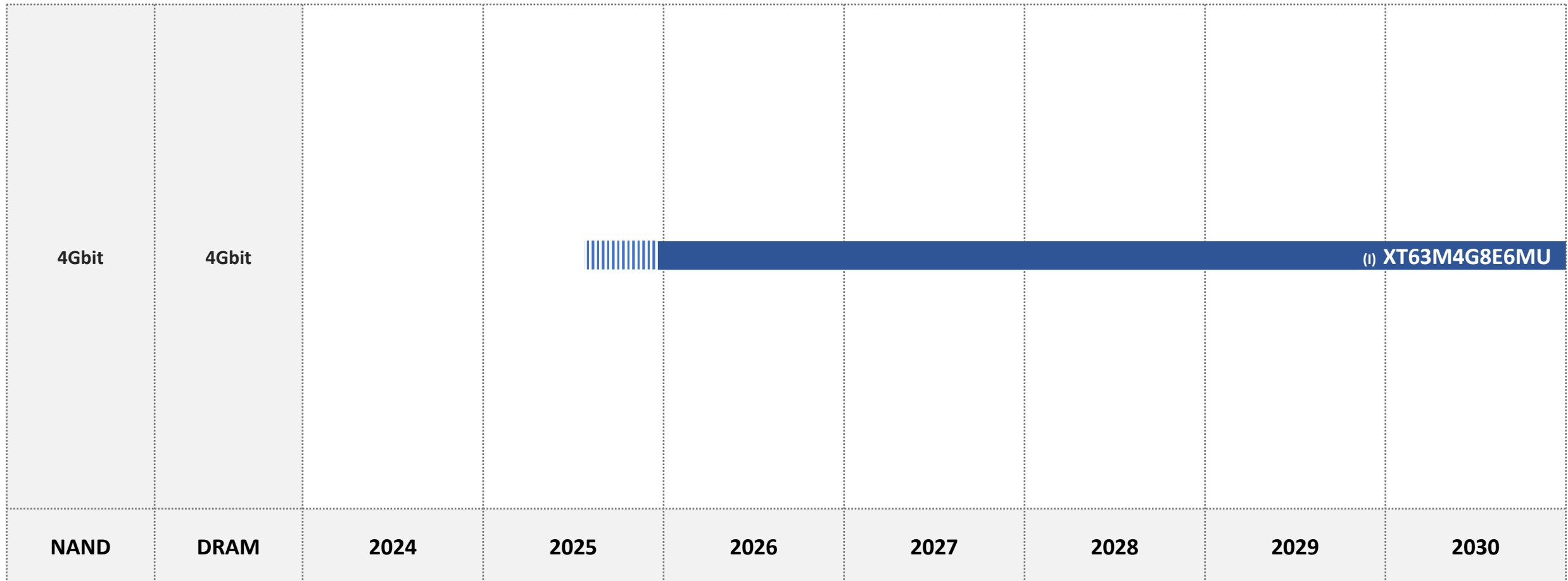


>> NAND MCP - LPDDR2 Series

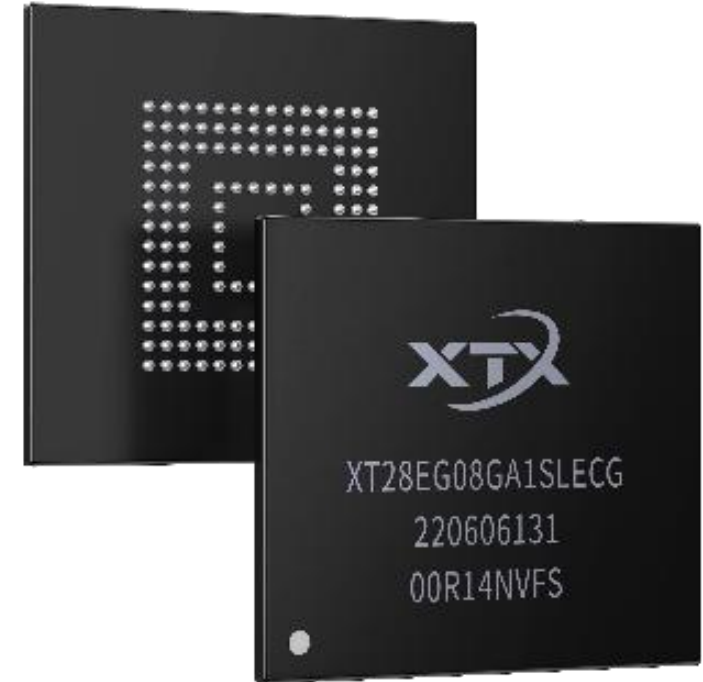


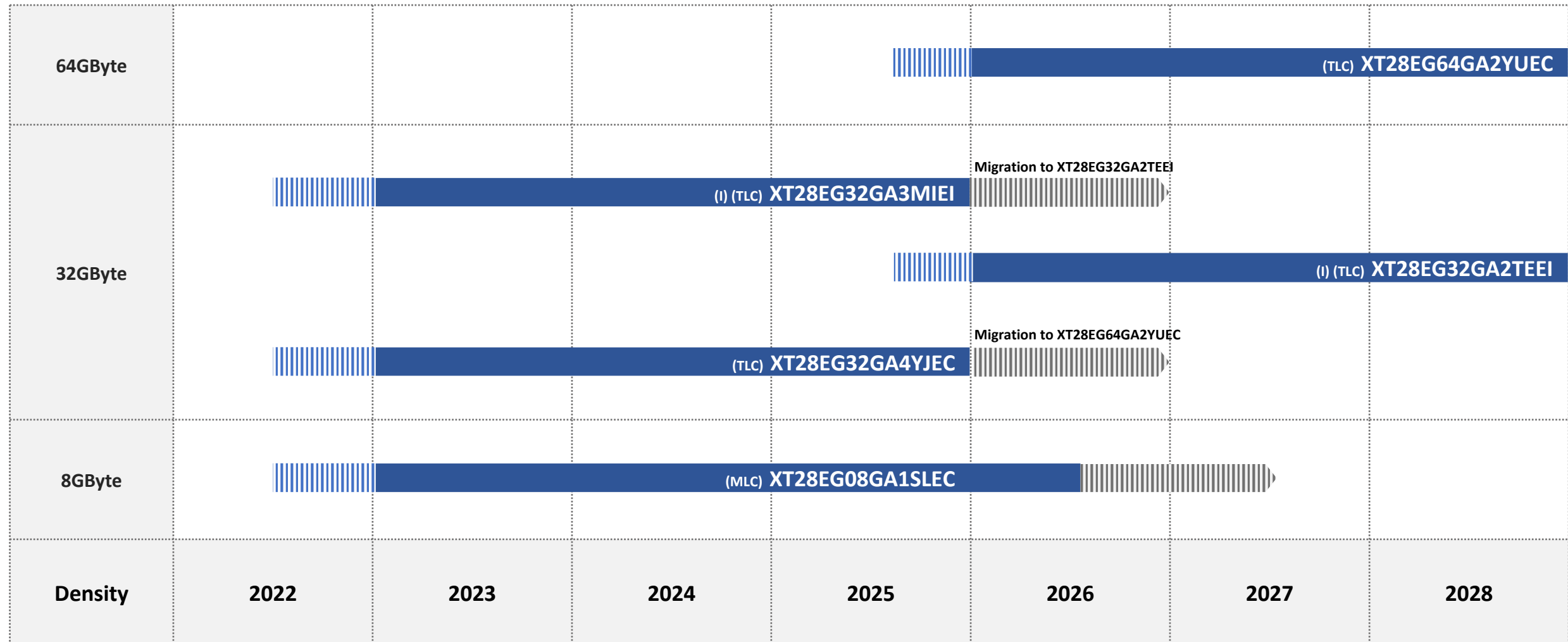
E: Extended Level Temp. = -30°C to +85°C

I: Industrial Level Temp. = -40°C to +85°C



- Packaged NAND Flash Memory with eMMC 5.1 Interface
- Bus Mode: High-Speed eMMC protocol with Ten-Wire bus (clock, 1-bit command, 8-bit data bus) and hardware reset
- Operating Voltage Range: VCC = 3.3V; VCCQ = 3.3V / 1.8V
- Data Bus Width: Supports 1-bit (default), 4 bits, 8 bits
 - Data Transfer Rate: Up to 52 Mbyte/s (using 8 parallel data lines at 52 MHz)
 - Single Data Rate: Up to 200 Mbyte/s @ 200 MHz
 - Dual Data Rate: Up to 400 Mbyte/s @ 200 MHz
- Supports Field Firmware Update (FFU)
- Supports Power Off Notification for Sleep
- Supports HS400
- Temperature Range Options: -25°C ~ 85°C; -40°C ~ 85°C; -40°C ~ 105°C



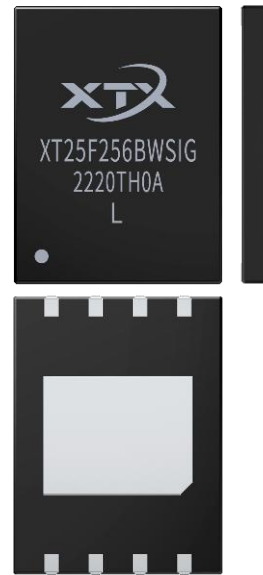


I: Industrial Level Temp. = -40°C to +85°C
 C: Commercial Level Temp. = -25°C to +85°C

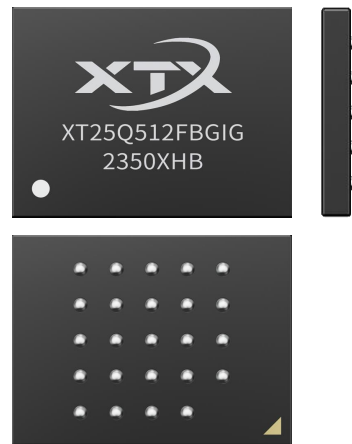
SOP16 300mil
10.3x10.3x2.65mm
Pitch: 1.27mm
256Mbit-1Gbit



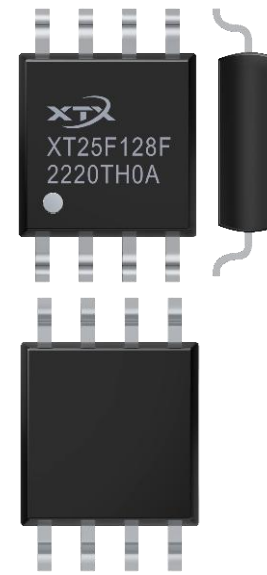
WSO8 8x6mm
8x6x0.8mm
Pitch: 1.27mm
256Mbit-512Mbit



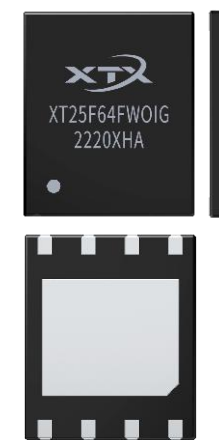
BGA 24 Ball (5x5)
8x6x0.8mm
Pitch: 1.27mm
512Mbit-2Gbit



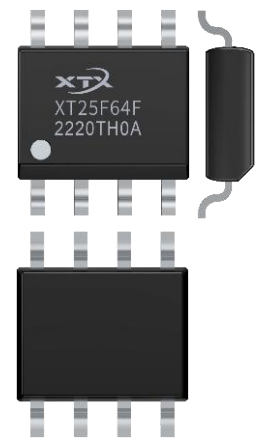
SOP8 208mil
7.9x5.23x2.15mm
Pitch: 1.27mm
8Mbit-128Mbit



WSO8 6x5mm
6x5x0.8mm
Pitch: 1.27mm
64Mbit-256Mbit



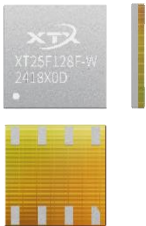
SOP8 150mil
6x4.9x1.75mm
Pitch: 1.27mm
2Mbit-64Mbit



FODFN8 3x3mm

3x3x0.4mm
Pitch: 0.5mm

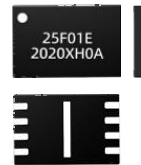
128Mbit



DFN8 2x3mm FODFN8 2x3mm

2x3x0.4mm
Pitch: 0.5mm

2Mbit-64Mbit



DFN6 1.2x1.2mm FODFN6 1.2x1.2mm

1.2x1.2x0.4mm
Pitch: 0.4mm
2Mbit-4Mbit



FODFN6 1.2x0.7mm

1.2x0.7x0.4mm
Pitch: 0.4mm
2Mbit



WLCSP

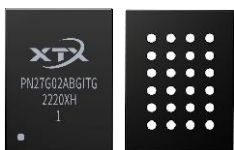
64Mbit-128Mbit



Parallel NAND

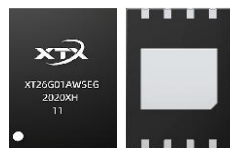


BGA63
11x9x0.88mm
Pitch: 0.8mm
4Gbit-8Gbit PPI NAND



BGA24
8x6x1.14mm
Pitch: 1.0mm
1Gbit-4Gbit PPI NAND

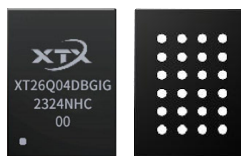
SPI NAND / SD NAND



WSON8 8x6mm
8x6x0.8mm
Pitch: 1.27mm
1Gbit-8Gbit SPI NAND
1Gbit-8Gbit SD NAND



LGA8 6x5mm
6x5x0.8mm
Pitch: 1.27mm
1Gbit-2Gbit SPI NAND
1Gbit-2Gbit SD NAND

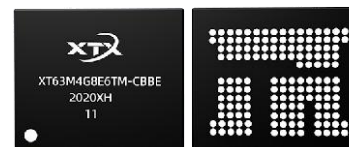


BGA24
8x6x1.14mm
Pitch: 1.0mm
1Gbit-4Gbit SPI NAND



LGA8 8x6mm
8x6x0.93mm
Pitch: 1.27mm
2Gbit SPI NAND

NAND MCP

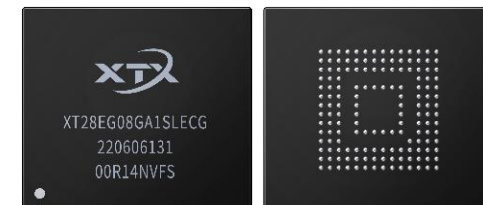


BGA149
9.5x8x0.8mm
Pitch: 0.5mm
4G4GD4X NMCP



BGA162
10.5x8x1.0mm
Pitch: 0.5mm
1G1GD2, 2G1GD2,
2G2GD2, 4G4GD2 NMCP

eMMC



BGA153
11.5x13x1.0mm
Pitch: 0.5mm
8GByte-64GByte eMMC

>> Pin-To-Pin Compatible Packages



WSO8 8x6mm
8x6x0.8mm
256Mb SPI NOR
1Gbit-4Gbit
SPI NAND



**WSO8 8x6mm
&
SOP8 208mil
Footprint
Compatible!**



WSO8 6x5mm
6x5x0.8mm
32Mbit-128Mbit
SPI NOR



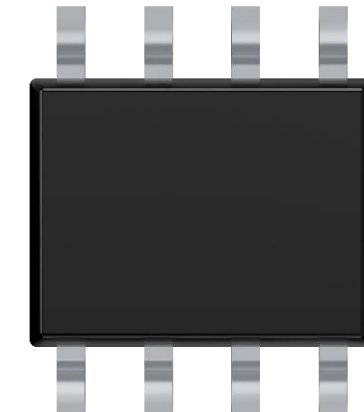
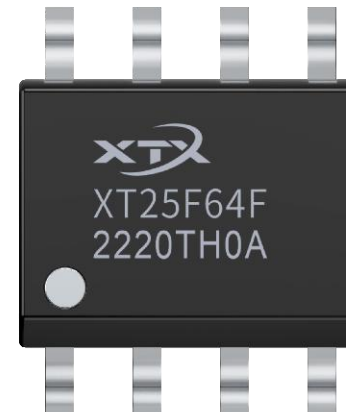
**WSO8 6x5mm
&
SOP8 150mil
Footprint
Compatible!**



**WSO8 8x6mm & WSON8 6x5mm
Footprint Compatible!**



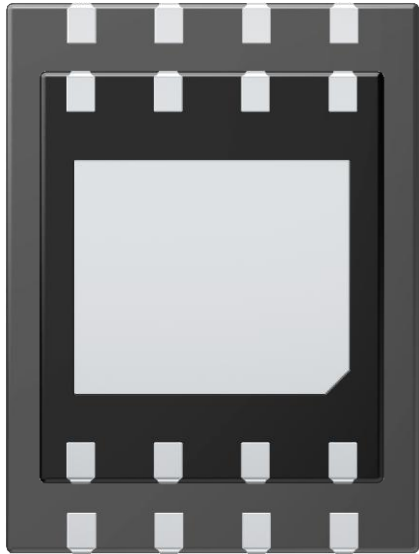
SOP8 208mil
7.9x5.23x2.15mm
8Mbit-128Mbit
SPI NOR



SOP8 150mil
6x4.9x1.75mm
2Mbit-64Mbit
SPI NOR

**SOP8 208mil & SOP8 150mil
Footprint Compatible!**

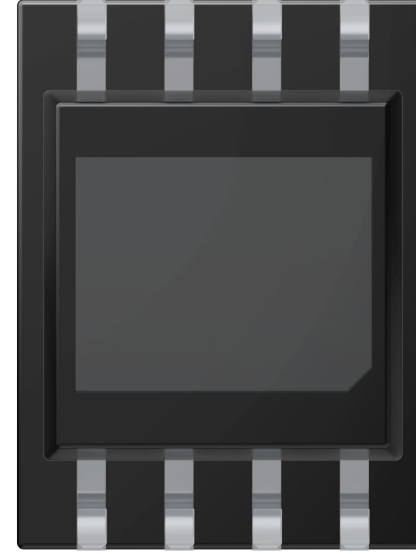
>> Pin-To-Pin Compatible Packages



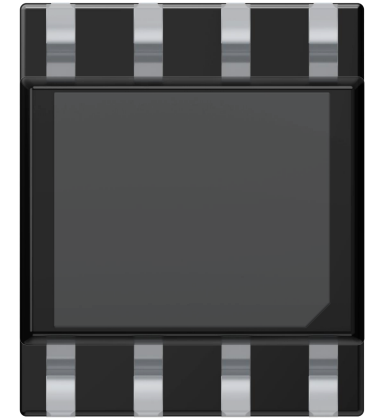
**WSO8 8X6mm
WSO8 6X5mm
Footprint Compatible!**



**SOP8 208mil
SOP8 150mil
Footprint Compatible!**

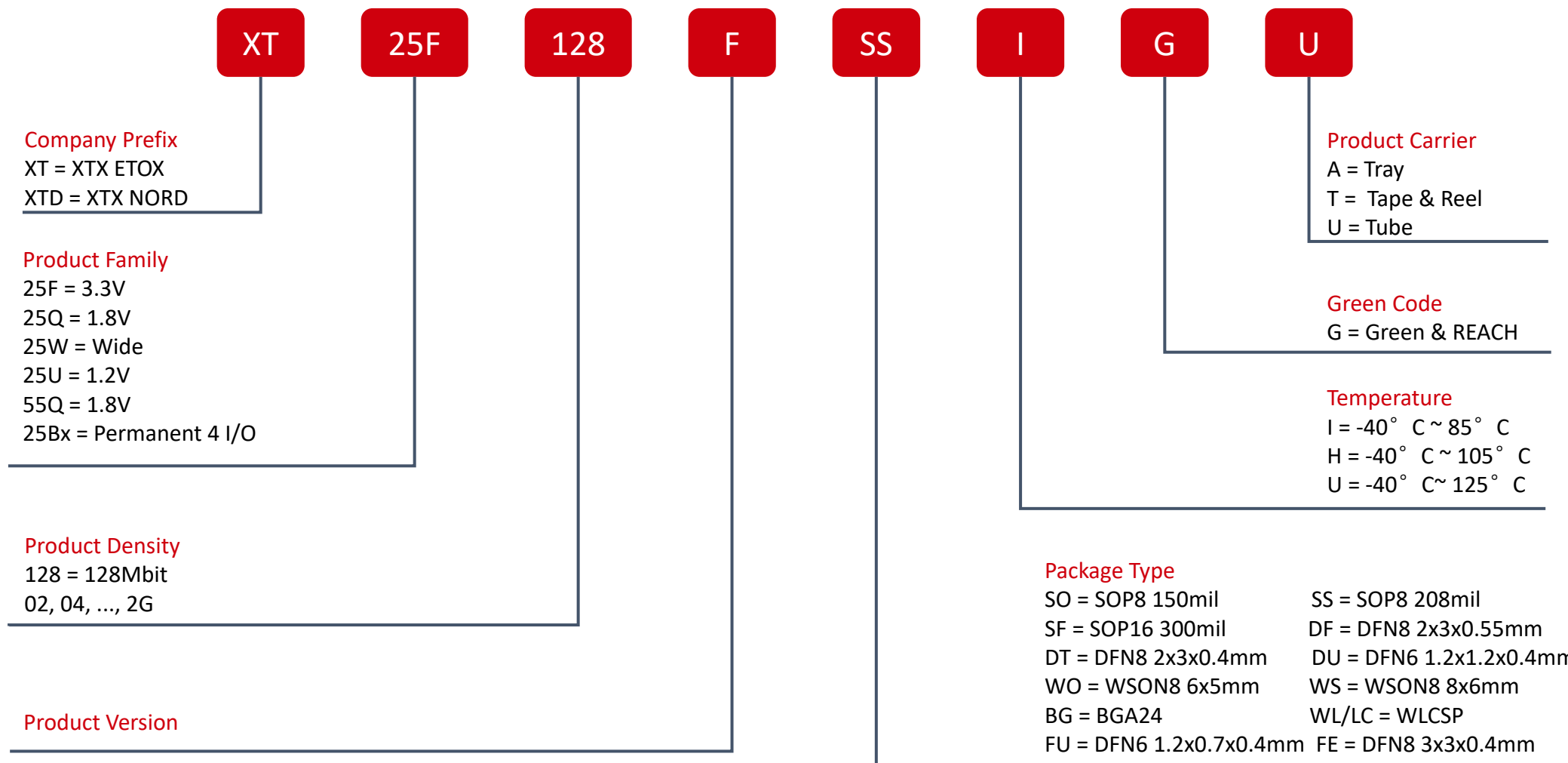


**WSO8 8X6mm
SOP8 208mil
Footprint Compatible!**

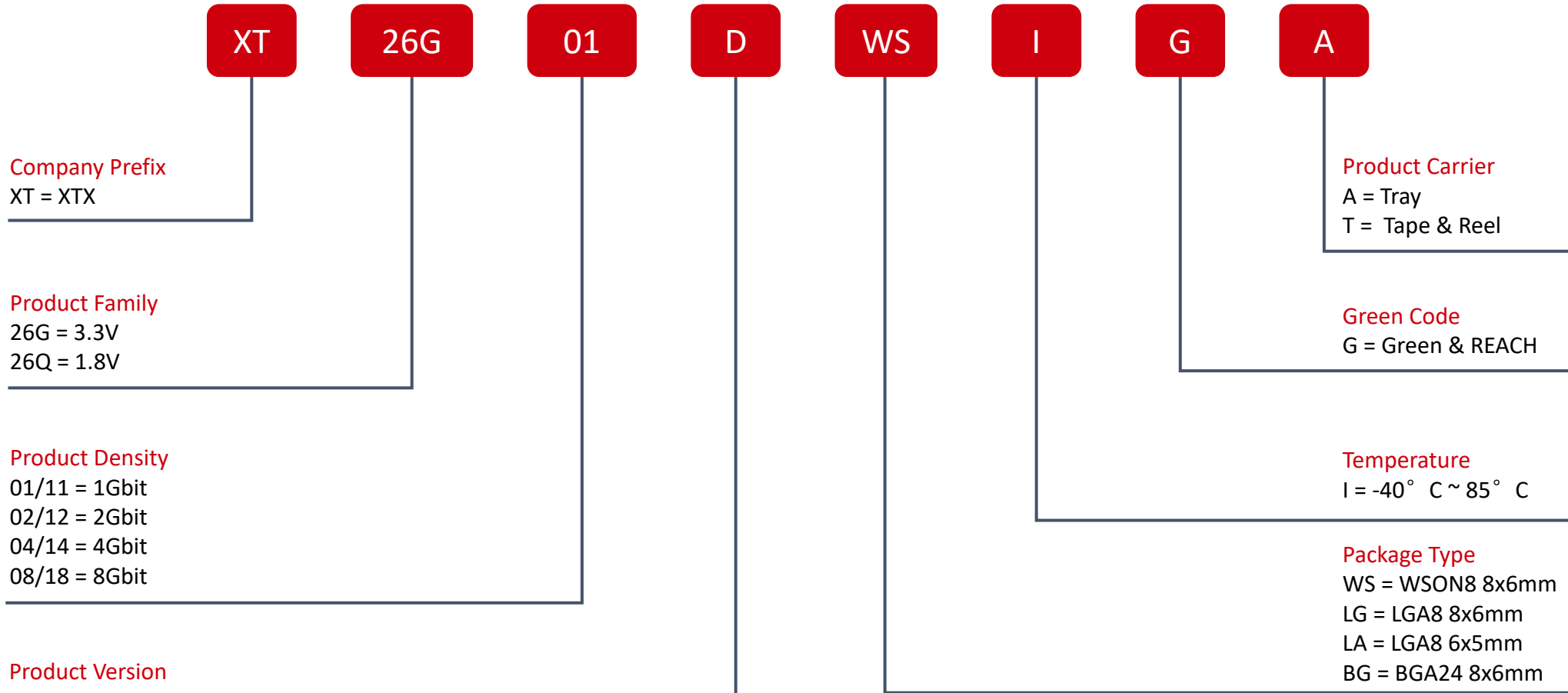


**WSO8 6X5mm
SOP8 150mil
Footprint Compatible!**

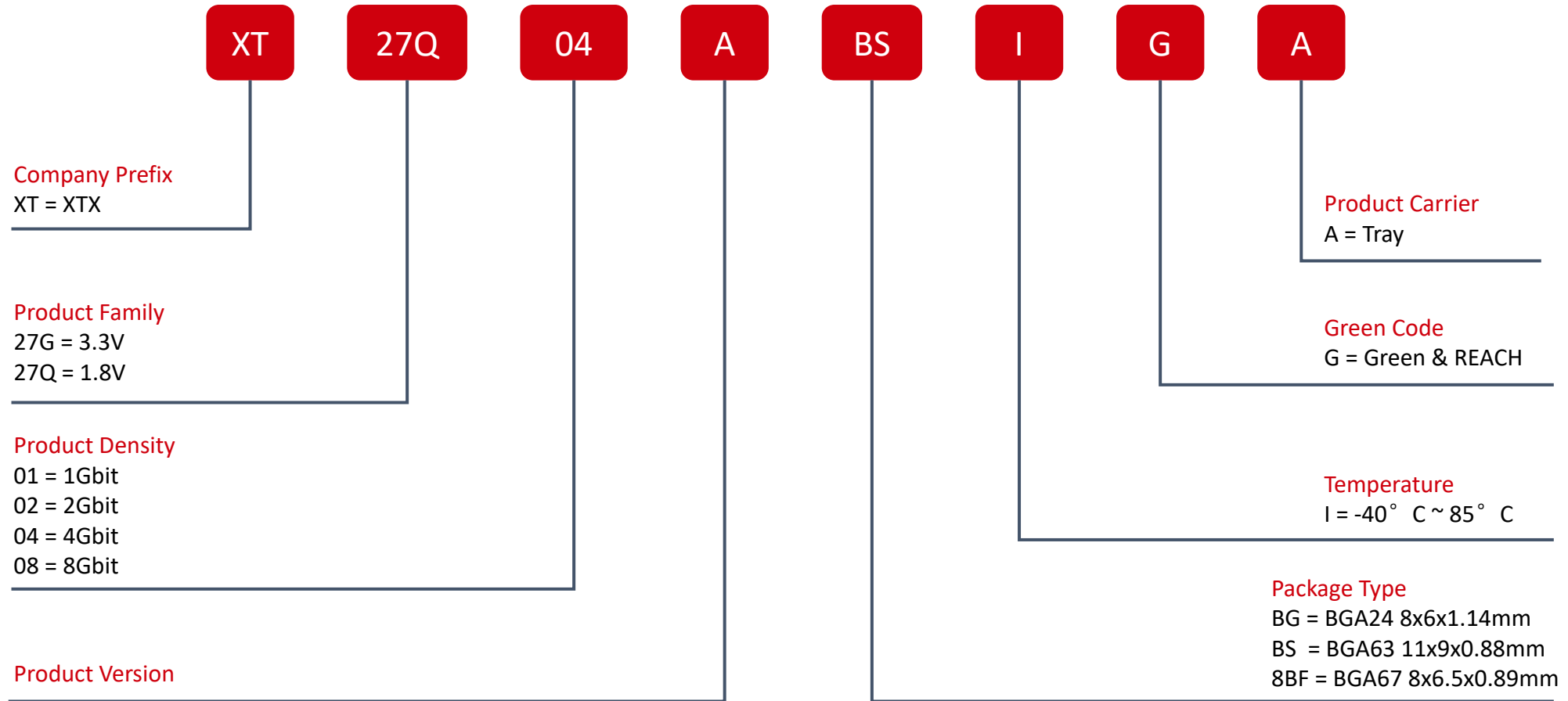
» Ordering Information - XT25 SPI NOR



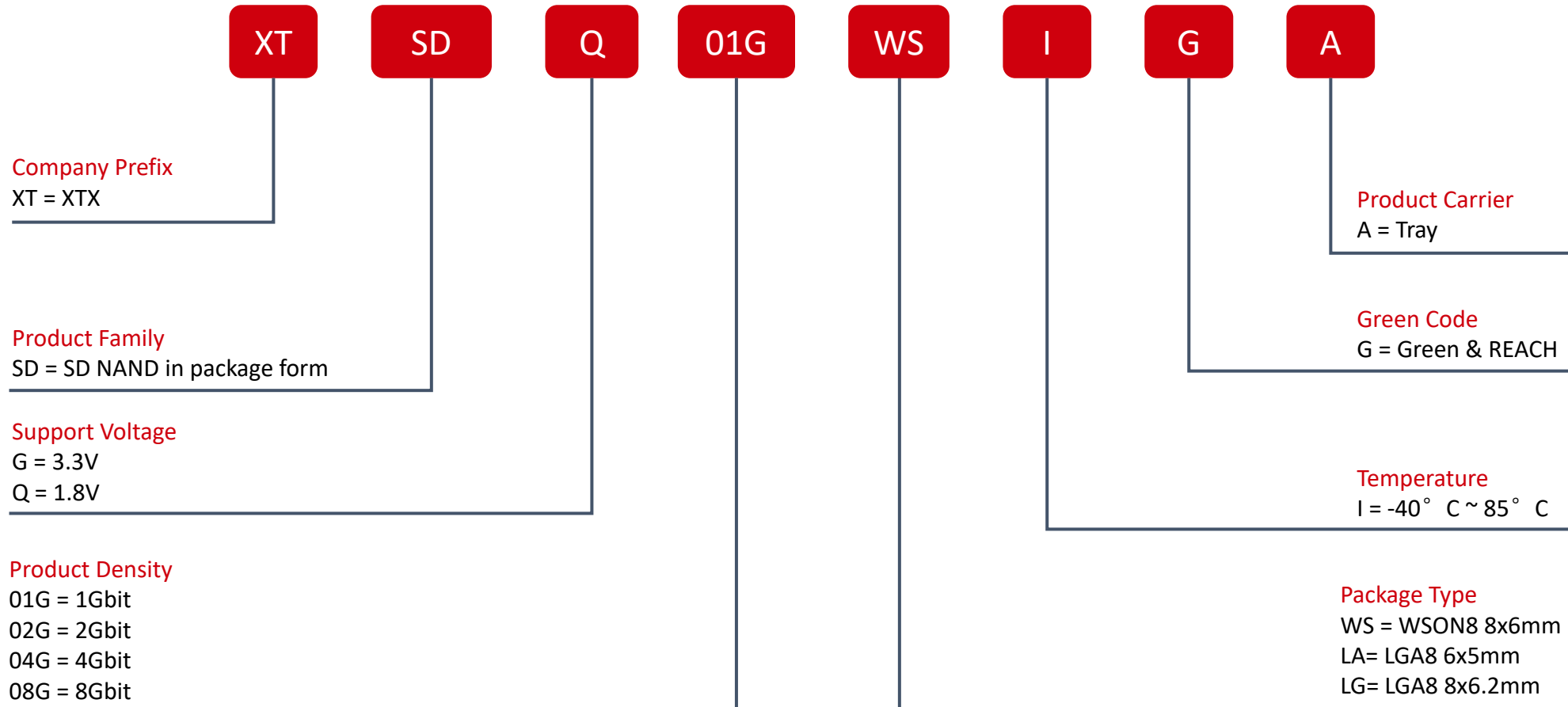
Ordering Information - XT26 SPI NAND



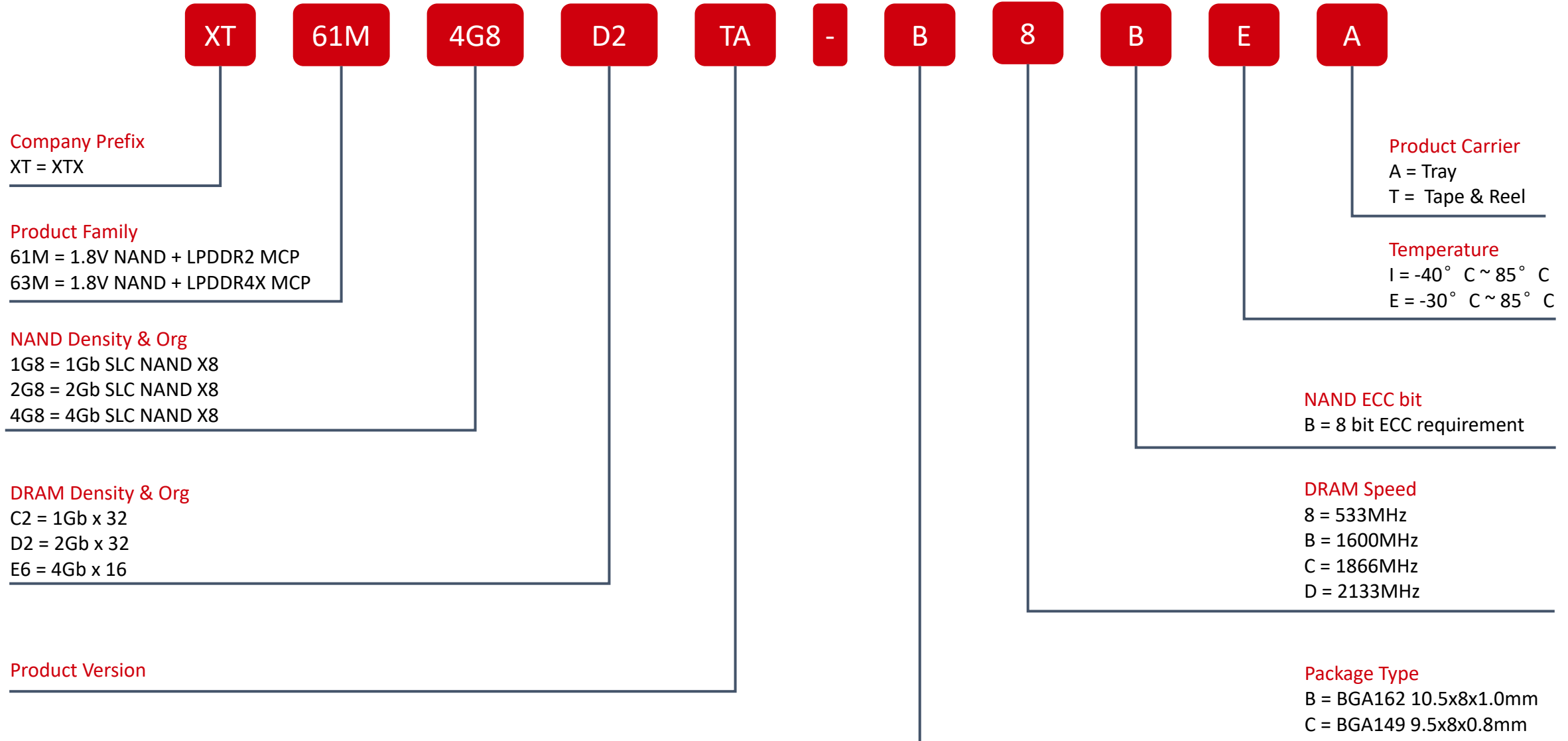
» Ordering Information - XT27 PPI NAND



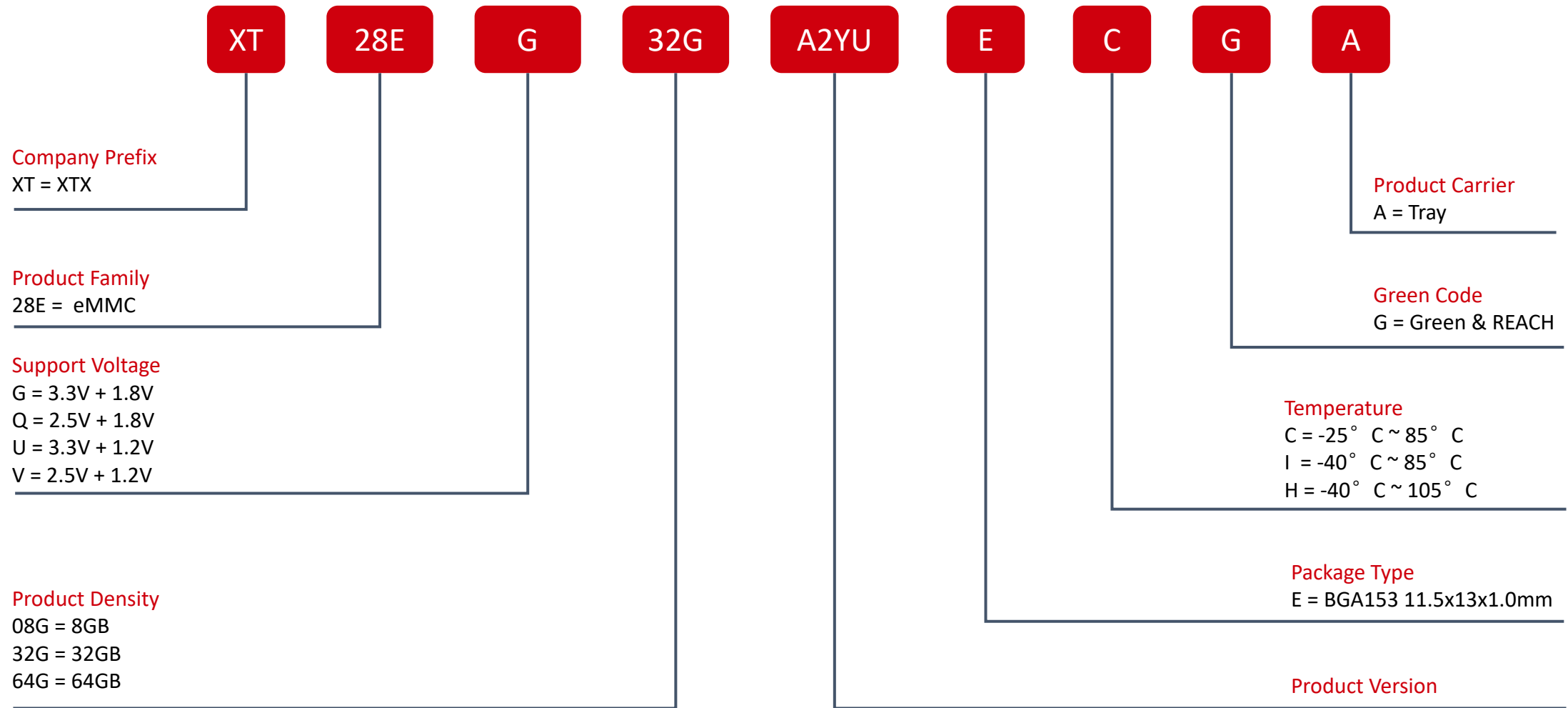
» Ordering Information - XTSD SD NAND



» Ordering Information - XT61/63 NAND MCP



» Ordering Information - XT28E eMMC



Qualification

Simulation:
Digital/Analog



Wafer Level Reliability Test:
GOI/TDDDB/HCI/NBTI/PBTI/SM



Package Level Reliability Test:
PC/AC/HAST/UHAST/HTSL/TC



Product Level Reliability Test:
HTOL/Cycling/LTDR/ESD/...

Mass Production

Wafer Test:
CP1+CP2+CP3



100% Final Test:
Open/Short/Leakage Check



QC Spot Check:
Open/Short/Leakage Check



100% Visual



Ship



Proprietary Final Test Equipment

- Quality First - Our priority
- Total Quality Management - Ensuring excellence
- 100% Device Testing – Guaranteed reliability
- Optimized Test Flow - Meeting high standards

Certified to ISO 9001:
2015 Standards





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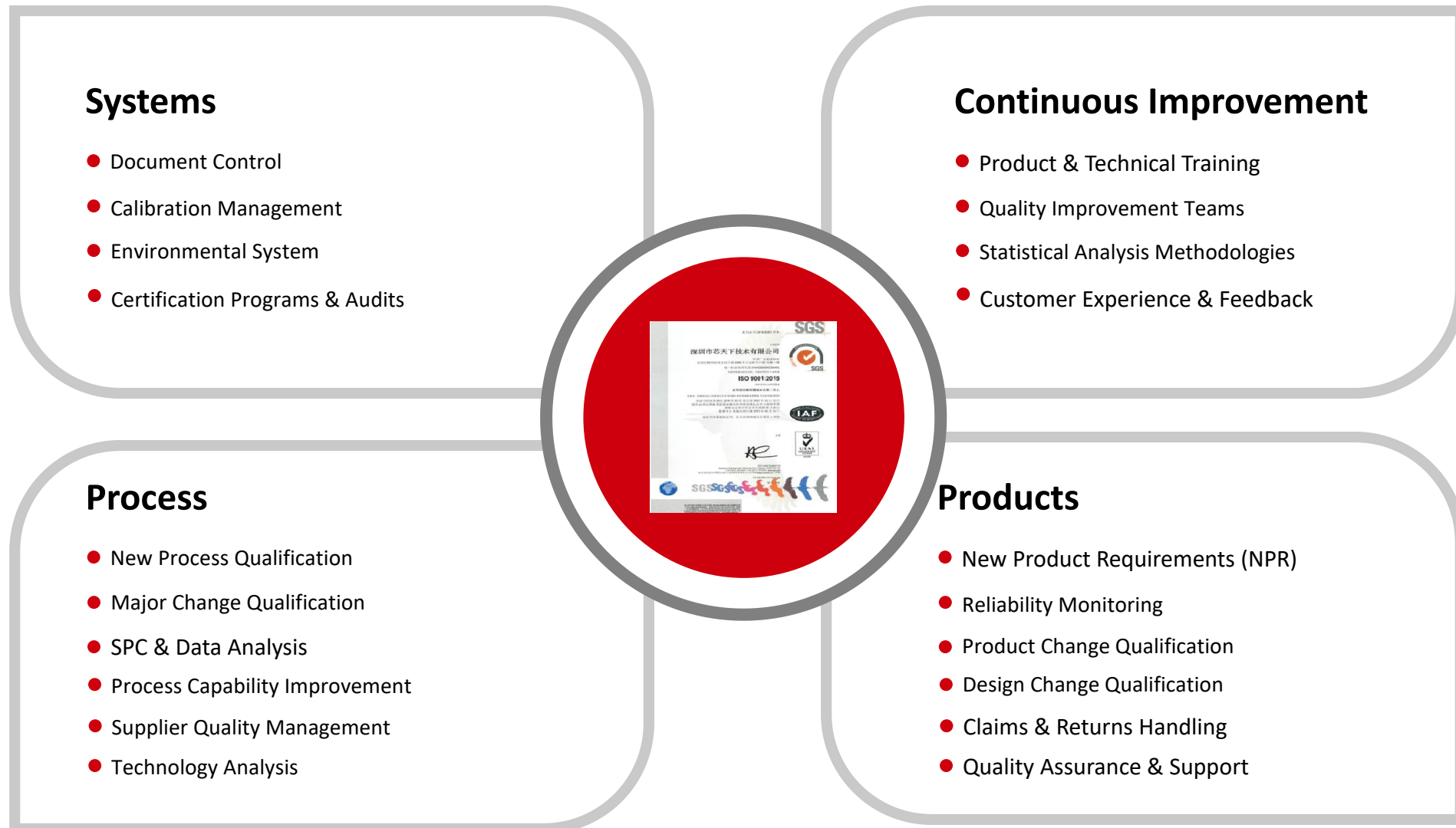
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Thank You!

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