



MICRON

Что такое Micron для вас?

75% стоимости сервера

Our memory & storage solutions make your workloads

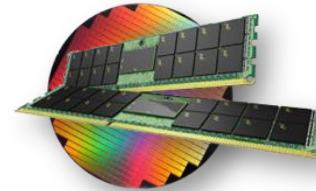
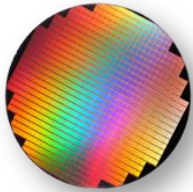
faster



greener



...just better



4

NAND Flash
Manufacturers

3

DRAM Manufacturers

2

Both DRAM
& NAND
for the Enterprise

1

The only
firm with the next
generation memory
solution (3DXPoint)



\$12.4
BILLION
FY16 net sales

4

Полупроводниковая
компания в мире

3

Компания по
производству
памяти

#226

В списке Fortune
500's по обороту



38 Years strong in
18 Countries with **13**
Manufacturing and R&D sites
30,000+ Team Members

Global Manufacturing Scale



Boise, Idaho USA



Lehi, Utah USA



Manassas, VA USA



Muar, Malaysia



Singapore



Taiwan (Inotera)



Taiwan



Xian, China



Hiroshima, Japan

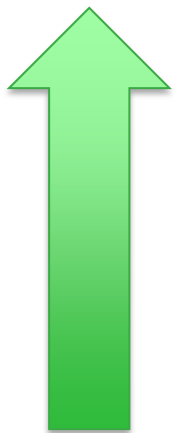


Akita, Japan

Тренды, оказывающие влияние на рынок DRAM

1

*Рост
контента*



Миграция в серверах на Server 32GB и 64GB модули

iPhone перешел 2GB/3GB

Android Flagship перешел 4GB to 6/8GB

*Пользователям
требуется больше
DRAM*

2

*Растущий
спрос*



Cloud: 48%

Enterprise: 34%

Networking: 26%

Mobile 22%

Graphics: 19%

Client: 9%

*2017 общий рост
22%*

3

*Ограниченное
производство*

Limited wafer growth

Transition to 8Gb mono die largely complete

Fewer LP and DDR4 bits per wafer relative to DDR3

*2017 Overall
Bit Growth at 19%*



Исторический список DRAM производителей

- AMD
- AMI
- AT&T
- Elpida
- Eurotechni
- Fairchild
- Fujitsu
- Hynix
- Hitachi
- IBM
- Infineon
- Intel
- Intersil
- Inmos
- ITT
- LG
- Matsushita
- **Micron**
- Mitsubishi
- Mosel Vitelic
- Mostek
- Motorola
- Nanya
- National
- NEC
- NMB/PNX
- Oki
- PowerChip
- ProMos
- Samsung
- Sanyo
- SGS
- Sharp
- Signetics
- TSMC
- TI
- Toshiba
- Vanguard
- Winbond
- Zilog

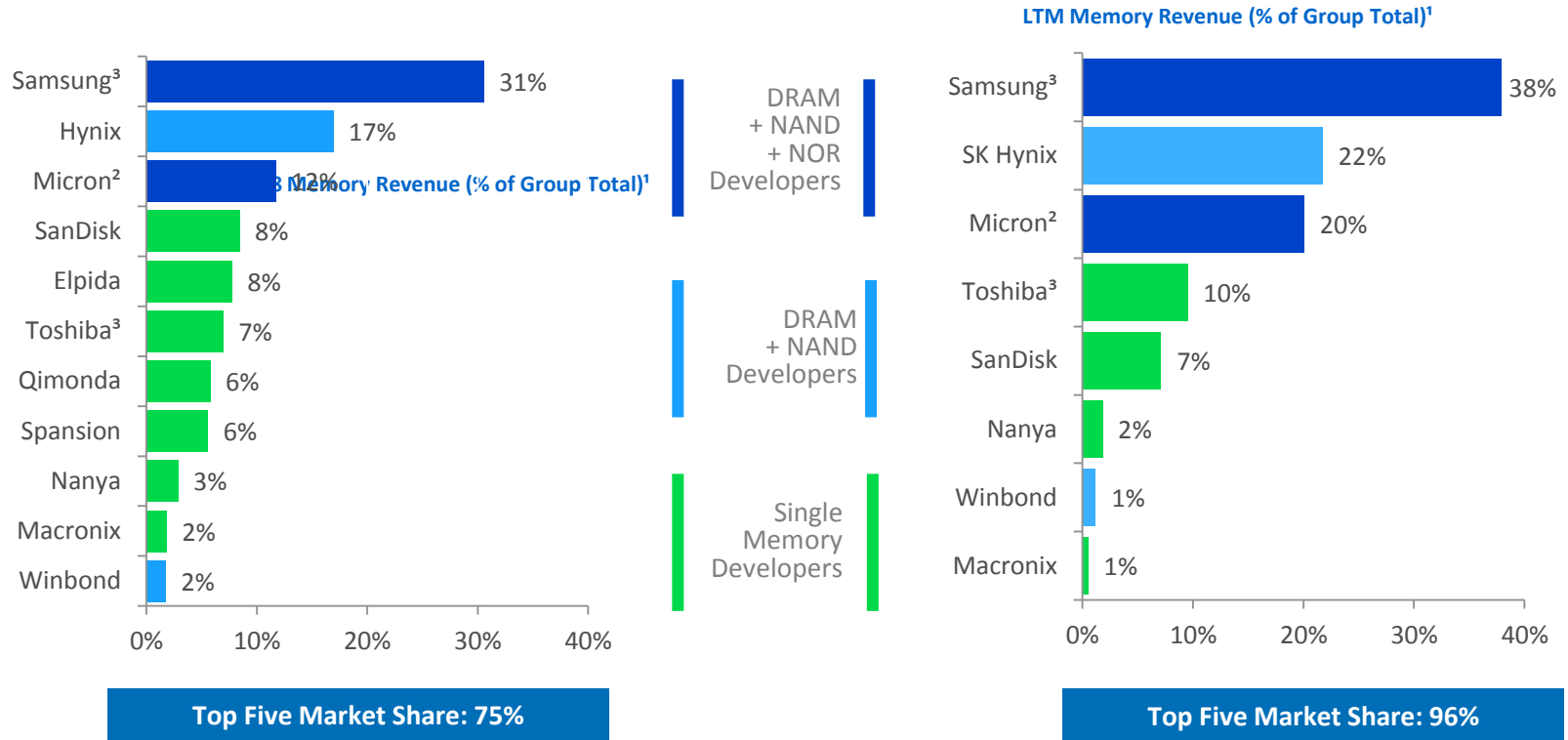
Source: de Dios and Associates

DRAM производители 2017

- Samsung
- SK Hynix
- **Micron**
- Nanya
- Winbond

Source: Micron Research

Memory Industry: FY 2008 vs Today



Source: Micron

Micron data is from FY 2008; Competitor data is from CQ4-07 – CQ3-08.

1. Group total defined as only those companies listed on this page, although others may also exist.

Micron data is fiscal, competitor data is calendar. Percentages vary due to rounding.

2. Micron Includes NAND sold to Intel from IM Flash.

3. Samsung and Toshiba include total memory revenue as reported.

Source: Micron

Micron data is FQ1-15 – FQ4-15; Competitor data from CQ4-14 – CQ3-15.

1. Group total defined as only those companies listed on this page, although others may also exist.

2. Micron Includes NAND sold to Intel from IM Flash

3. Samsung and Toshiba include total memory revenue as reported.

MICRON | продуктовая линейка

DRAM Families

SDRAM
DDR
DDR2
DDR3
DDR4
RLDRAM®
Mobile LPDRAM
PSRAM/
CellularRAM

DRAM Modules

FBDIMM
RDIMM
VLP RDIMM
VLP UDIMM
UDIMM
SODIMM
SORDIMM
Mini-DIMM
VLP Mini-DIMM
LRDIMM
NVDIMM

Bare Die

Multiple
Technologies

NAND Flash

TLC, MLC, SLC
Serial NAND
Enterprise NAND

Solid State Drives

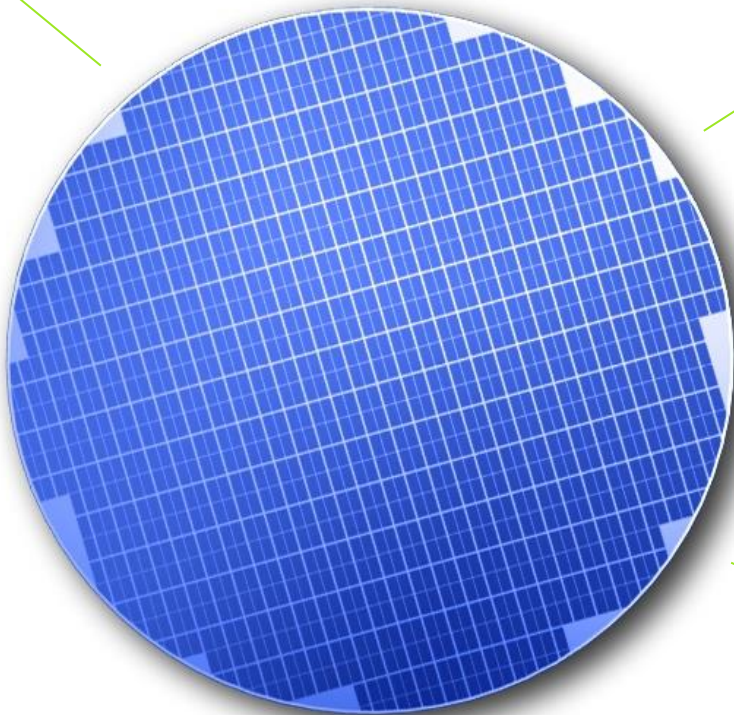
Client SSD
Enterprise SATA
Enterprise SAS
Enterprise PCIe

Managed NAND

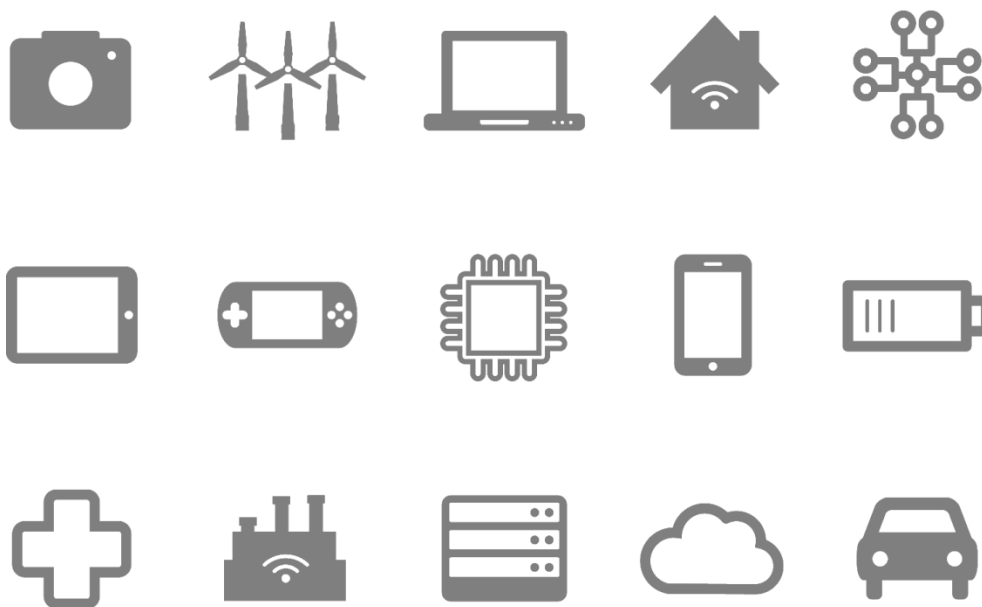
MCP
eMMC™
ClearNAND Flash
Embedded USB

NOR Flash

Parallel NOR
Serial NOR



Продукция Micron применяется в самых разных отраслях



You may not know it, but MICRON MEMORY is in the things you use every day.





crucial
by Micron



DESKTOP/LAPTOP DRAM
SERVER DRAM
CLIENT SSD

BALLISTIX
by Micron



GAMING DRAM

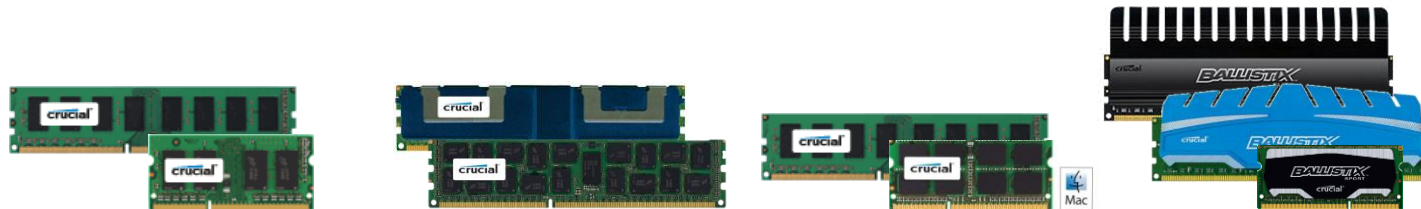
Micron



CLIENT SSD
CLOUD SSD
ENTERPRISE SSD

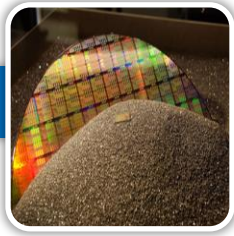


DRAM | обзор продуктовых линеек



	Desktop & Laptop	Workstation / Server	Memory for Mac	Performance Memory
Target Customer	Базовые модели для потребительского рынка и корпоративных клиентов	Малый и средний бизнес, Дата центры и Корпоративные клиенты	Mac пользователи	Энтузиасты и Геймеры
Type of Technology	DDR, DDR2, DDR3, DDR4	DDR2, DDR3, DDR4	DDR2, DDR3	Performance DDR3, DDR4
Type of Modules Available	UDIMMs, SODIMMs, RDIMMs, ECC UDIMMs, DDR2 FBDIMMs, DDR3 LRDIMMs	RDIMMs, LRDIMMs, FBDIMMs, VLP RDIMMs, ECC SODIMMs, ECC UDIMMs	SODIMMs; RDIMMs and ECC UDIMMs*	UDIMMs, low profile and very low profile UDIMMs, SODIMMs
Speed & Capacity **	667MT/s - 2400MT/s 1GB – 16GB modules	1066MT/s - 2666MT/s 2GB-64GB modules	667MT/s – 1866MT/s 2GB – 16GB	1600MT/s – 3200MT/s 2GB – 16GB modules
Compatibility	OEM-compatible	OEM-compatible	Mac-compatible	PC-compatible

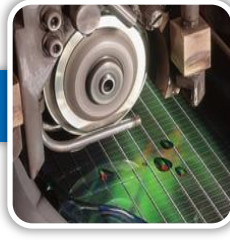
Micron | вертикально интегрированный производитель



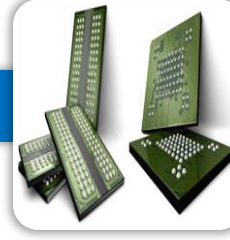
Choice materials



Silicon wafer



Wafer to die



Die to DRAM and NAND



Modules to test:
temperature,
compatibility,
and production

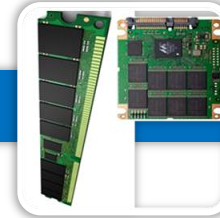
Crucial products for
IT Channel partners



Micron products for
OEM and industrial
customers



Sent to local
warehouses



Micron memory
and SSDs



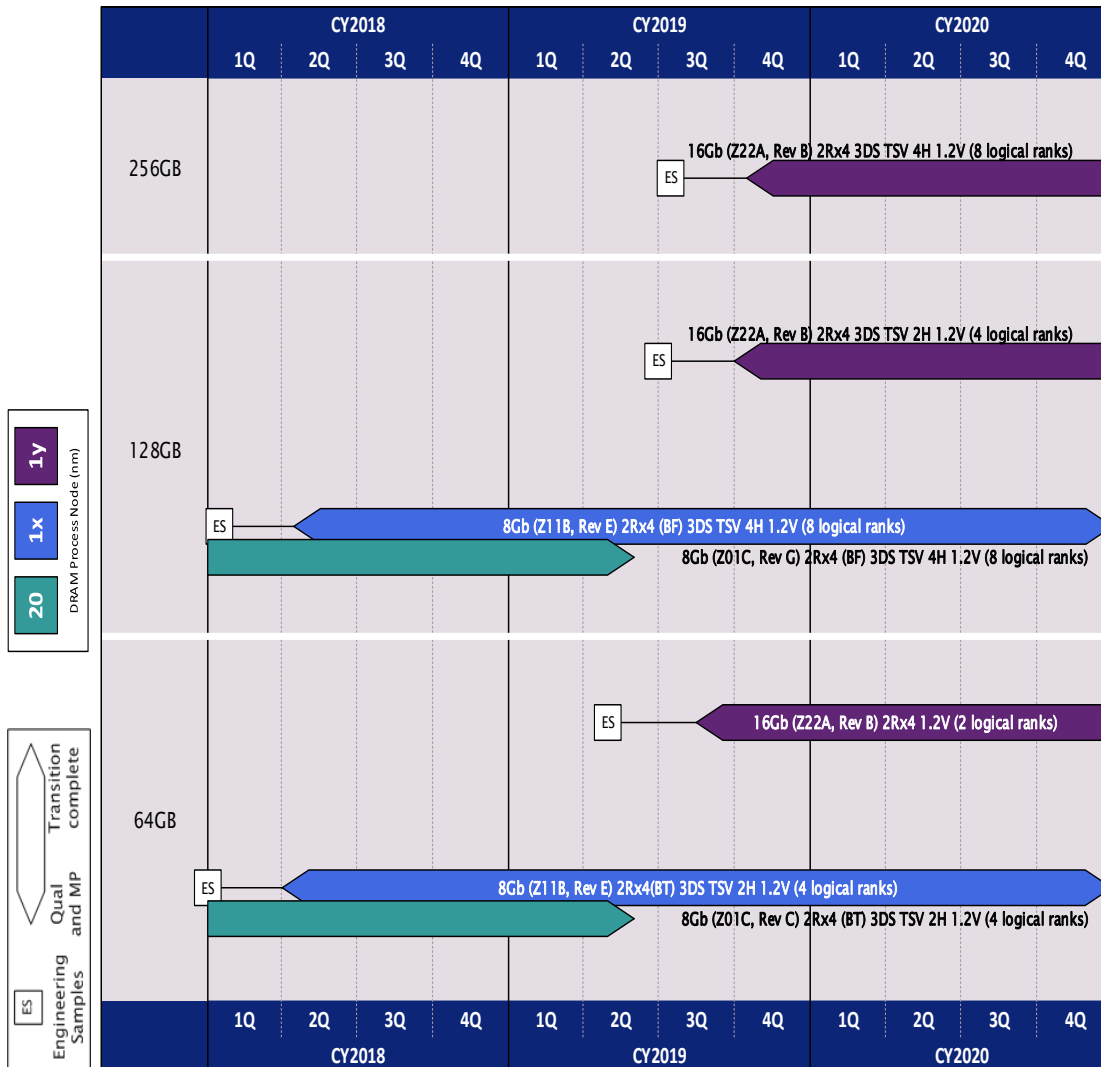
Modules to
manufacturing

DDR4 Server Module Roadmaps

DDR4 RDIMM 64GB-256GB (Server)

Server DDR4 - RDIMM (64GB-256GB)

Created: 3/2/2018



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Key Points

Voltage / Speed

- 1.2V 2400MT/s (Mainstream for 2016)
- 1.2V 2666MT/s (Mainstream for 2H'17)
- 1.2V 2933MT/s (Mainstream for 1H'19)
- 1.2V 3200MT/s (Mainstream for 1H'20)

Roadmap Direction

- 8Gb based for 2666MT/s, 16Gb based for 2933-3200MT/s
- 3DS RDIMM acceptance dependent on 2DPC speed capability
- 256GB RDIMM introduction with 16Gb 4H/3DS availability

Transitions

- 64GB transitions from 2H/3DS to SDP in 2019
- 64GB/128GB transition to 1xnm in 2018

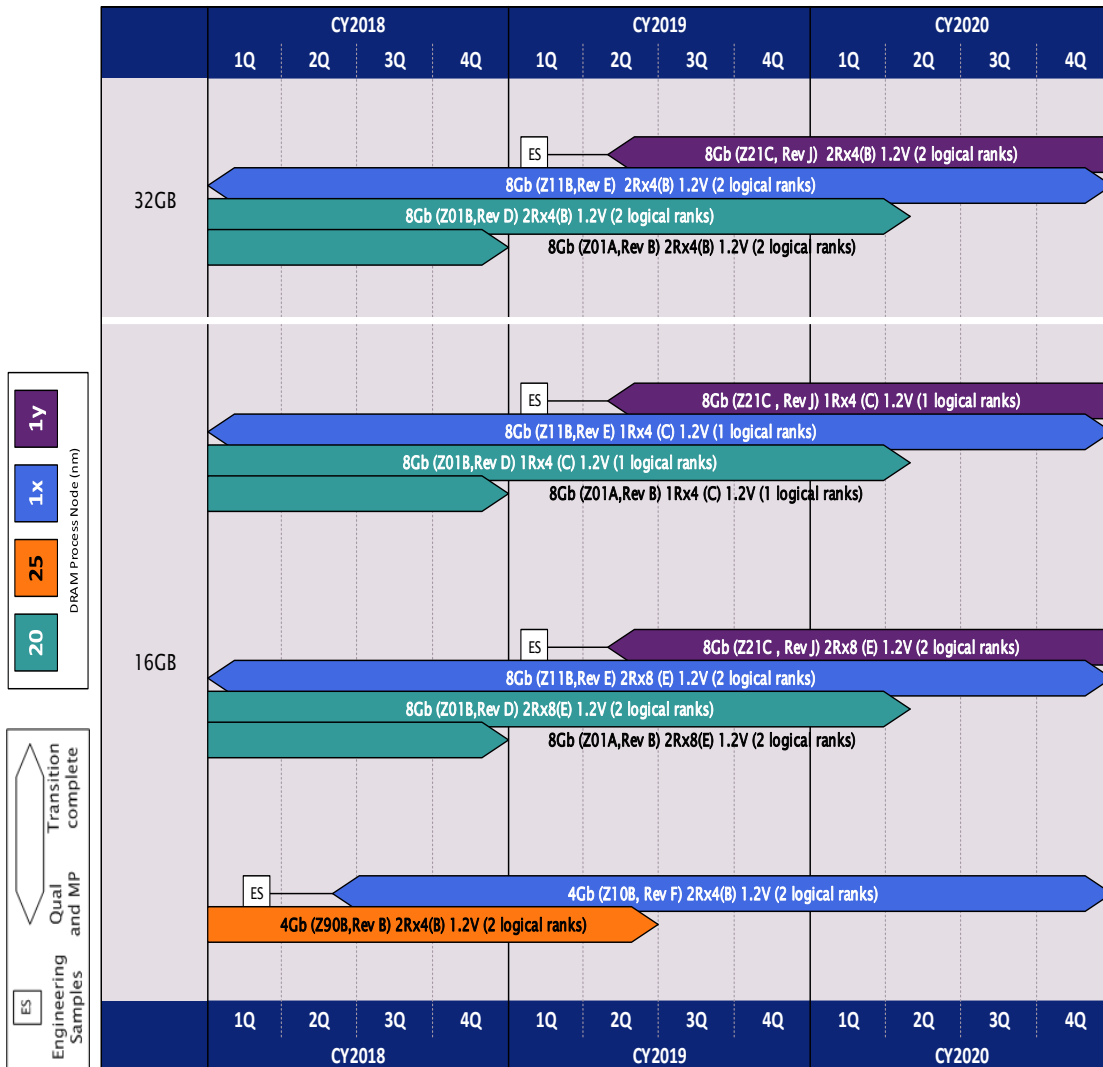
DDR4-3200

- Available with 16Gb based solutions

DDR4 RDIMM 16GB-32GB (Server)

Server DDR4 - RDIMM (16GB-32GB)

Created: 3/2/2018



Micron Confidential

Key Points

Voltage / Speed

- 1.2V 2400MT/s (Mainstream for 2016)
- 1.2V 2666MT/s (Mainstream for 2H'17)
- 1.2V 2933MT/s (Mainstream for 1H'19)
- 1.2V 3200MT/s (Mainstream for 1H'20)

Roadmap Direction

- 16GB volume on 8Gb; Limited support on 4Gb
- 32GB is mainstream density through CY2018

Transitions

- 16GB (4Gb) transitions 25nm to 1Xnm
- 16GB / 32GB (8Gb) transitions 20nm to 1Xnm

CY2018 Mainstream RDIMMs

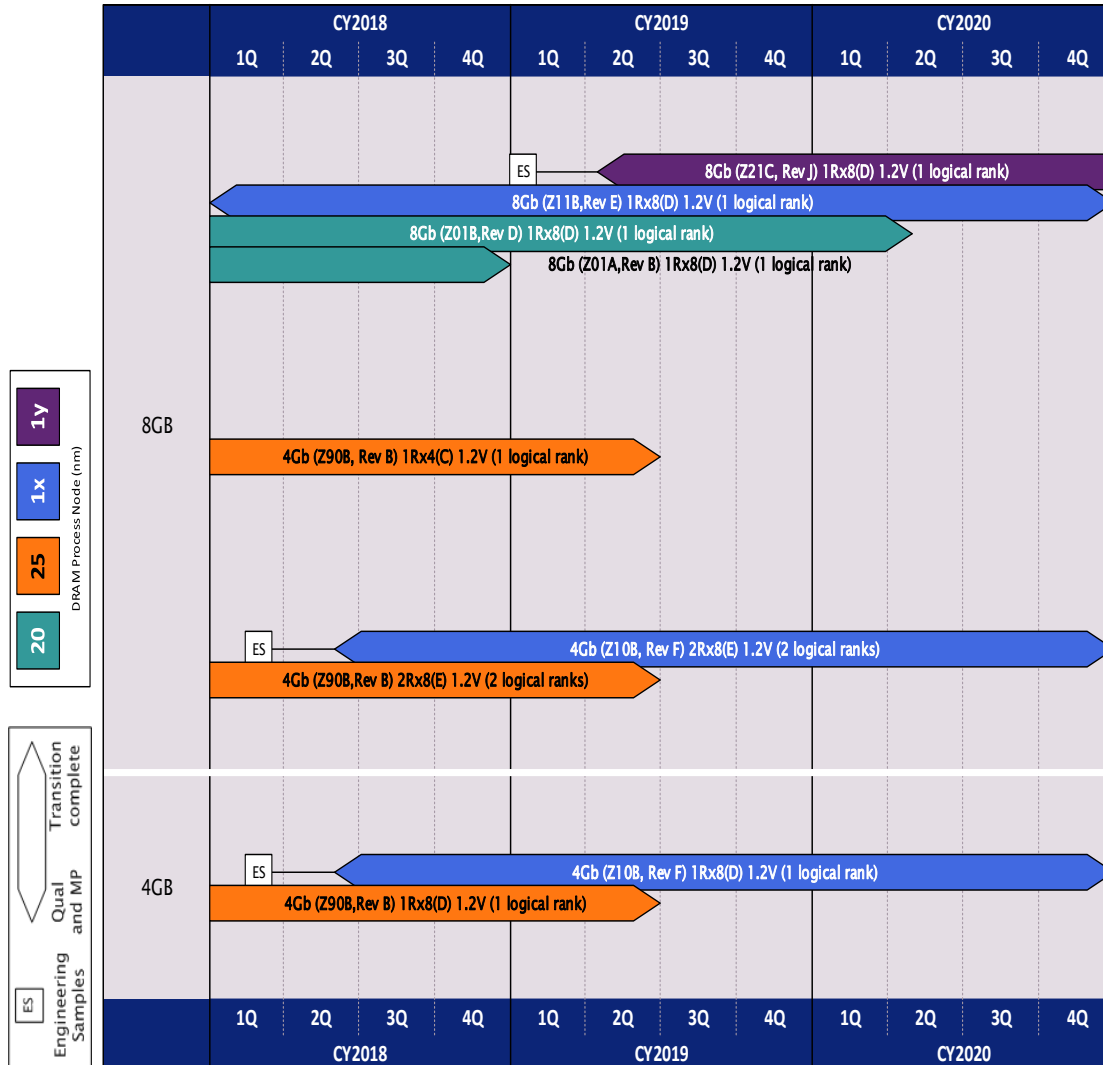
- 32GB-2666 2Rx4 (2933 introduction CQ4'18)
- 16GB-2666 2Rx8 (2933 introduction CQ4'18)

DDR4-2933:

DDR4 RDIMM 4GB-8GB (Server)

Server DDR4 - RDIMM (4GB-8GB)

Created: 3/2/2018



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Key Points

Voltage / Speed

- 1.2V 2400MT/s (Mainstream for 2016)
- 1.2V 2666MT/s (Mainstream for 2H'17)
- 1.2V 2933MT/s (Mainstream for 1H'19)
- 1.2V 3200MT/s (Mainstream for 1H'20)

Roadmap Direction

- 4GB 1Rx8 2666 extended life (limited volume)
- 8GB now legacy density (low volume)

Transitions

- 4GB / 8GB (4Gb) transitions 25nm to 1Xnm
- 8GB (8Gb) transitions 20nm to 1Xnm

CY2018 Mainstream RDIMMs

- 8GB-2666 1Rx8 (2933 introduction CQ4'18)

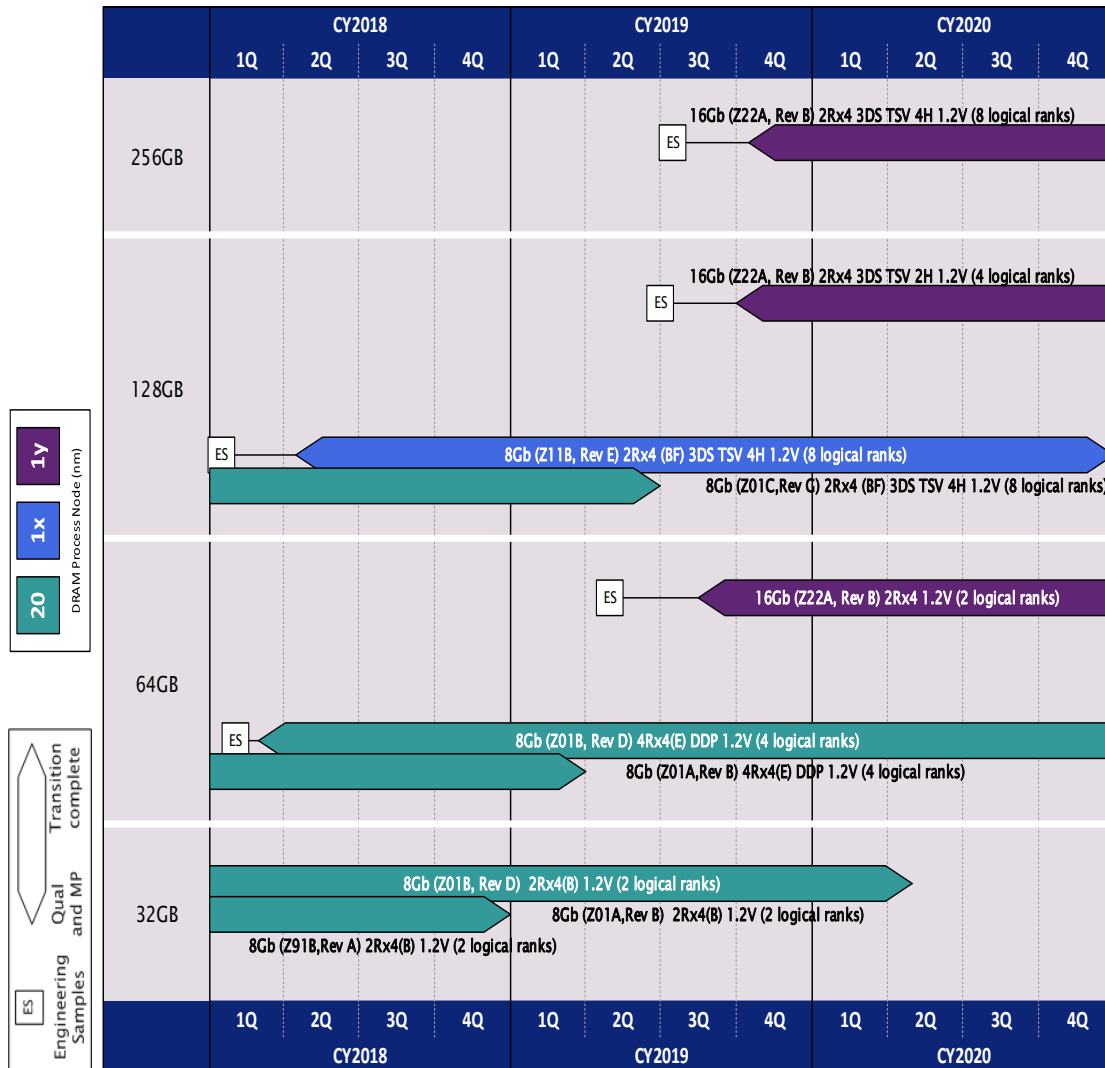
DDR4-2933:

- Samples available now

DDR4 LRDIMM (Server)

Server DDR4 - LRDIMM

Created: 3/2/2018



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Key Points

Voltage / Speed

- 1.2V 2400MT/s (Mainstream for 2016)
- 1.2V 2666MT/s (Mainstream for 2H'17)
- 1.2V 2933MT/s (Mainstream for 1H'19)
- 1.2V 3200MT/s (Mainstream for 1H'20)

Roadmap Direction

- 32GB LRDIMM low volume legacy
- 64GB use DDP stacks
- 128GB & 256GB use 3DS/TSV stacks
- 256GB LRDIMM introduction with 16Gb 4H/3DS availability

Transitions

- 64GB transitions from DDP to SDP in 2019
- 128GB transition from 8Gb to 16Gb in 2019

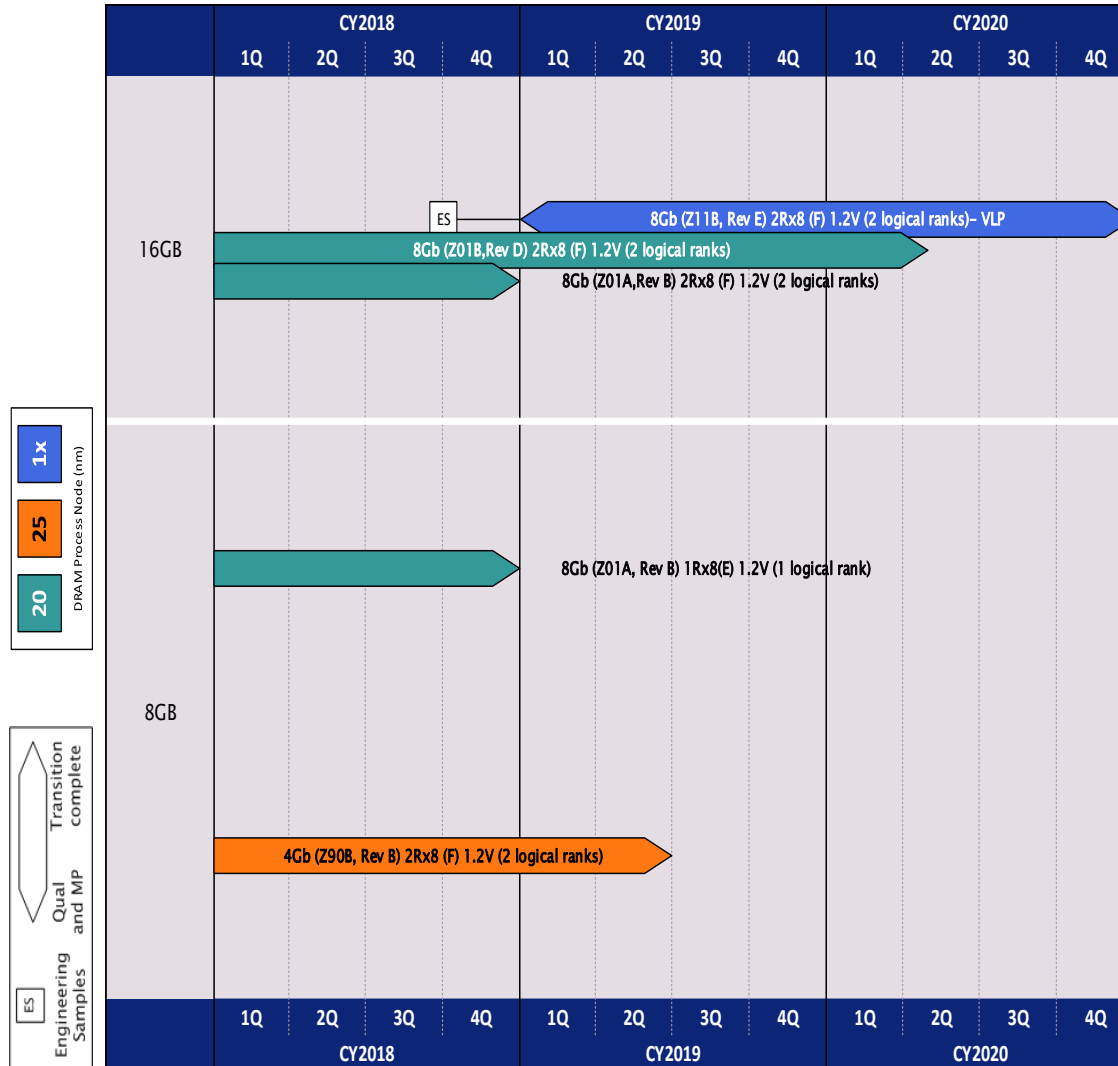
DDR4-2933

- Samples available CQ2'2018
- 64GB DDP & 128GB 4H/3DS based LRDIMMs in 2H'17

DDR4 ECC UDIMM (Server)

Server DDR4 ECC UDIMM

Created: 3/2/2018

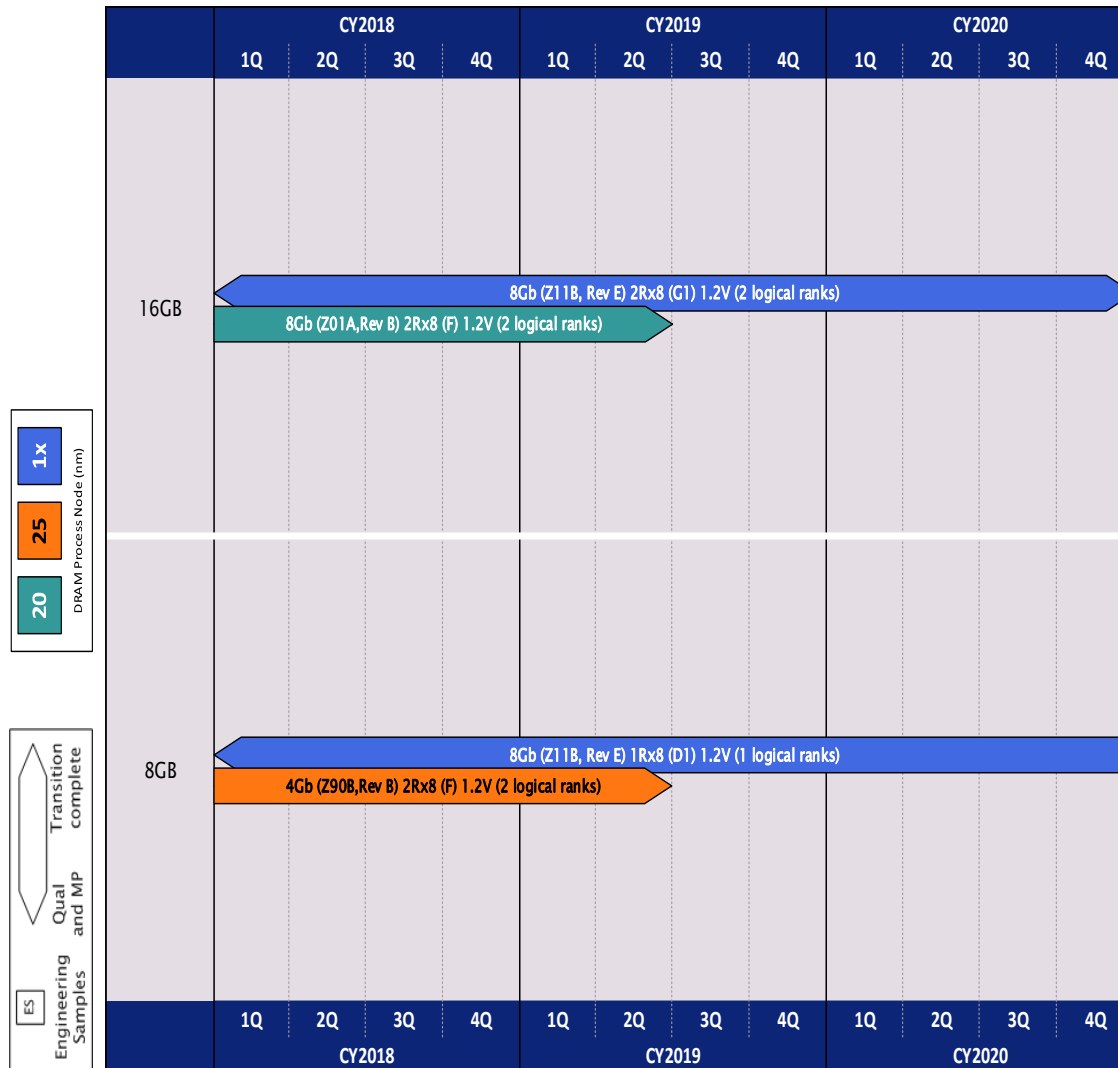


x

DDR4 ECC SODIMM (Server)

Server DDR4 ECC SODIMM

Created: 3/2/2018

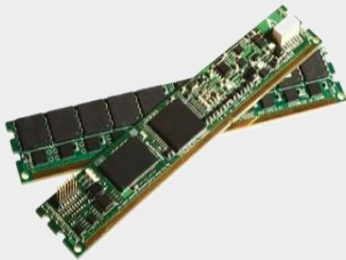


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Persistent Memory

Persistent Memory Overview

NVDIMM-N

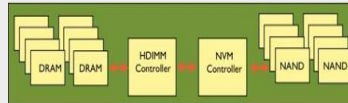


- Direct system access to DRAM but not flash
- Block or direct map driver
- Latency: DRAM (10s ns)
- Density: DRAM (10s GBs)
- Energy source for backup
- JEDEC defined



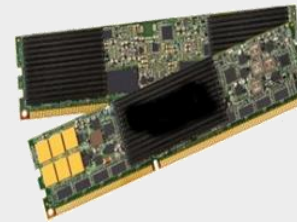
Available Now!!

NVDIMM-P



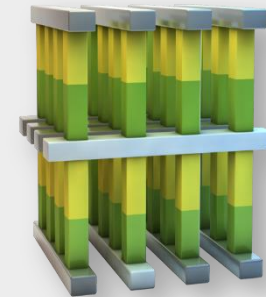
- Direct system access to DRAM and flash
- Block or direct map driver
- Latency: NVM (100s ns)
- Density: NVM (100s GBs)
- Energy source for backup
- No JEDEC definition

NVDIMM-F



- Direct system access to flash on memory bus
- Block access only
- Latency: NAND (10s us)
- Density: NAND (100s GBs)
- No energy source required
- JEDEC defined

3D Xpoint

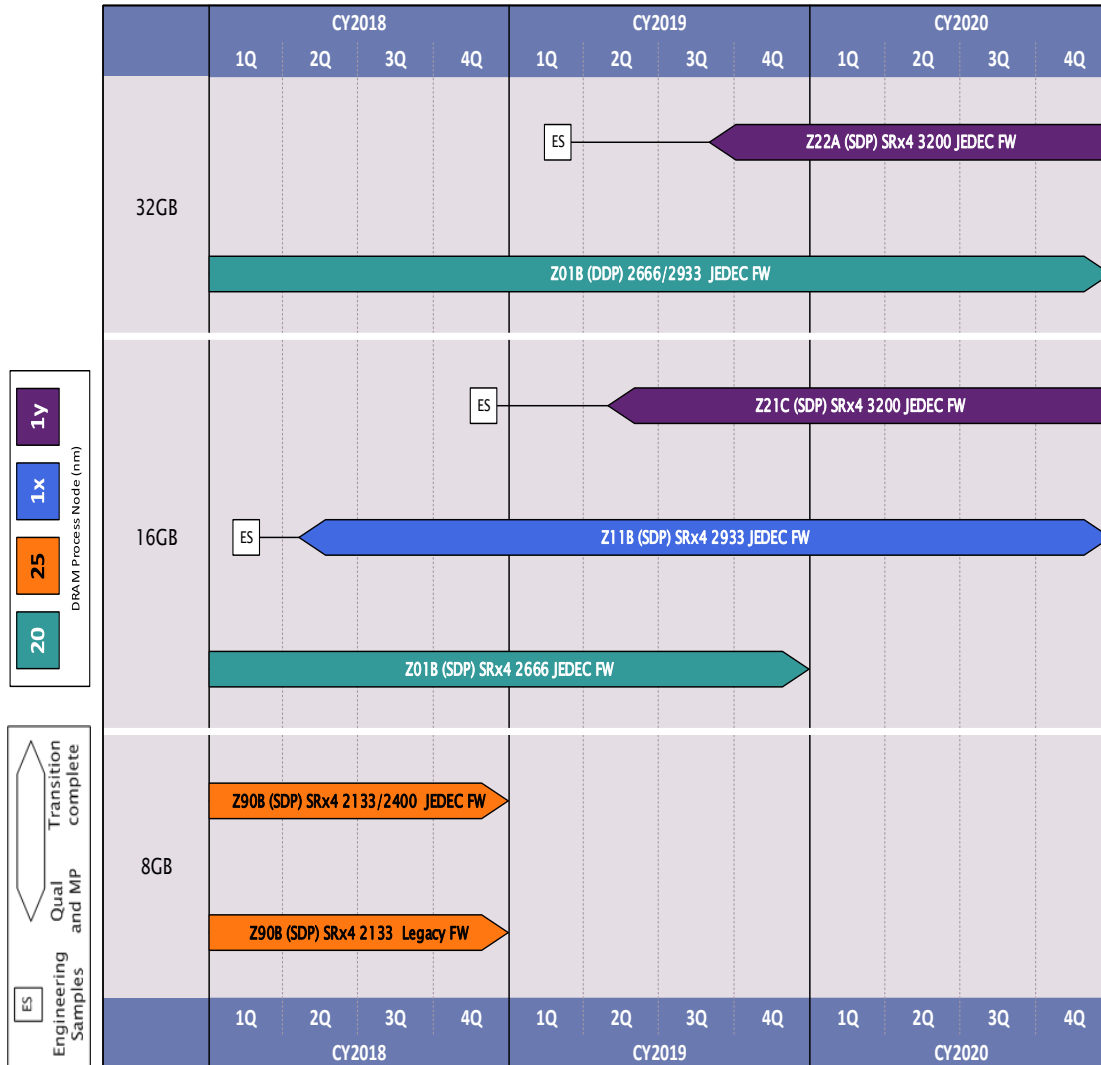


- Direct system access to DRAM and SCM
- Direct map
- Latency: NVM (100s ns)
- Density: NVM (100s GBs)
- No JEDEC definition

NVDIMM Roadmap

DDR4 NVDIMM roadmap

Created: 3/2/2018



Initial DDR4 NVDIMM Products:

8GB DDR4 NVDIMM w/ Legacy Firmware

- RDIMM architecture
- 1Rx4 RDIMM (4Gb SDP)-2133MT/s
- Back-up Power Source: 2.5" Drive Bay PowerGEM or persistent 12V routed to Module
- **Production – Now**
- **EOL by end of 2018, transition to 16GB NVDIMM**

8GB DDR4 NVDIMM w/ JEDEC Firmware

- Same Hardware as above – JEDEC firmware
- 1Rx4 (4Gb SDP) – 2133(2DPC)/2400(1DPC)MT/s
- **Production – Now**
- **EOL by end of 2018, transition to 16GB NVDIMM**

16GB DDR4 NVDIMM w/ JEDEC Firmware

- Conforms to JEDEC BAEBI 2.1 spec
- DRAM Port Switch eliminates Data MUXs
- 1Rx4 (8Gb SDP) RDIMM – 2666MT/s
- Current version - FW 2.4
- **Production – Now**

32GB DDR4 NVDIMM w/ JEDEC Firmware

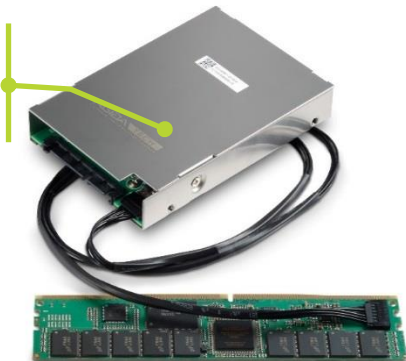
- Conforms to JEDEC BAEBI 2.1 spec
- DRAM Port Switch eliminates Data MUXs

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Устойчивая память - NVDIMM

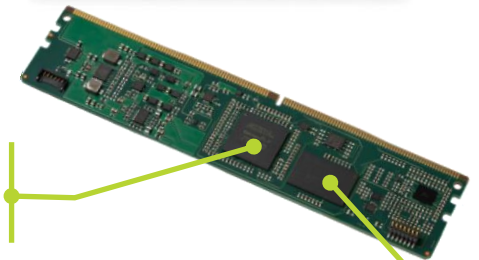
- NVDIMM – комбинация энергозависимой и энергонезависимой памяти
TODAY
- Micron’s NVDIMM – возможности быстрого действия DRAM со стабильностью и надежностью NAND:
 - Комбинация NAND Flash, DRAM, и независимого источника энергии в подсистеме памяти
 - DRAM скорости чтения и записи
 - Backs up DRAM данных в случае потери источника питания
 - 16GB и 32 GB в наличии

Ultracapacitor Module
Self-contained energy source for backup operation during power failure



NVDIMM Controller
Flash management, high-speed DMA, Status

Onboard DRAM & NAND
DRAM performance and Flash non-volatility



NVDIMM Ecosystem

MRC/BIOS

- DDR4 NVDIMM MRC code FW interface support via SOW with Intel

NVDIMM Motherboard support

- Supermicro supporting NVDIMM on X10DRH and X10DRi motherboards

Motherboard	BIOS revision	BIOS ECO Number	BIOS ECO Date	HW Revision	HW ECO number	HW ECO Date	Released Status
X10DRi(-T)	1.0c	17391	6-Jan	1.02b	17391	6-Jan	Yes
X10DRH-C/i(T)	1.0c	17492	13-Feb	1.01	14427	21-Jan	Yes
X10DRT-P/PT/PIBF	1.0c	17642	14-Apr	1.10	17442	28-Jan	Yes
X10DRT-H/HIBF	1.0a	17434	14-Jan	1.02	17712	13-May	Yes
X10DRC/i-LN4+/T4+	1.0b	17590	27-Mar	1.01	17513	26-Feb	Yes
X10DRU-i+	1.0c	17604	31-Mar	1.02b	17603	31-Mar	Yes
X10DRFR(N)(T)	1.0b	17395	8-Jan	1.10	17396	8-Jan	Yes
X10DRS-2U	1.00	N/A	N/A	1.00	N/A	N/A	Final Release Pending

- Intel PCSD is supporting several DDR4 systems (i.e. WildCat Pass, Taylor Pass, Kennedy Pass, etc.)
- Currently working with Intel on validation

Drivers*

- Linux driver for application access to reserved NVDIMM memory space (DDR4 driver in development)
- Open source persistent RAM driver (pmem.io - PRD) for use with ext4-DAX persistent memory file system

JEDEC/SNIA standardization for DDR4

- FW interface (command set) and feature set requirements and definitions
- +12V/return module pins (persistent or supercap charging)
- Save_n (other pin functions in discussion)

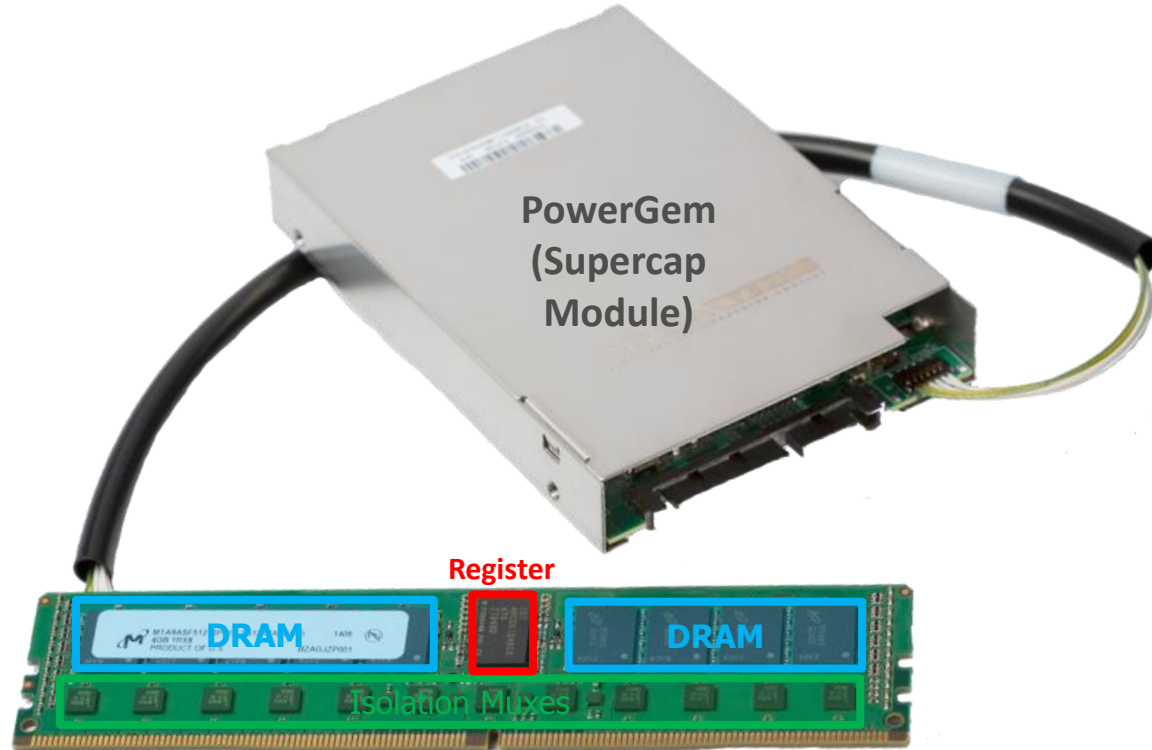
Other Collateral*

- Linux driver guide, HW/FW integration guide, module data sheet, firmware spec.
- NVDIMM system setup documentation for Linux persistent memory benchmark
- Micron NVDIMM website and PR (Nov 10)
- SC15 (Nov16) , HP Discover (London – Dec1)

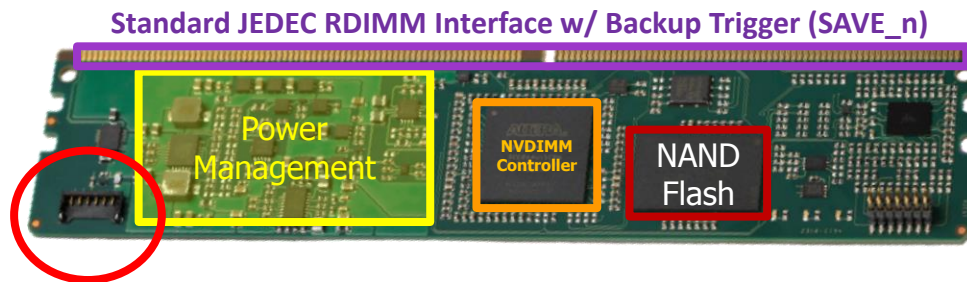
*Linux driver and most documentation is by Agigatech which requires AgigaTech NDA



NVDIMM анатомия

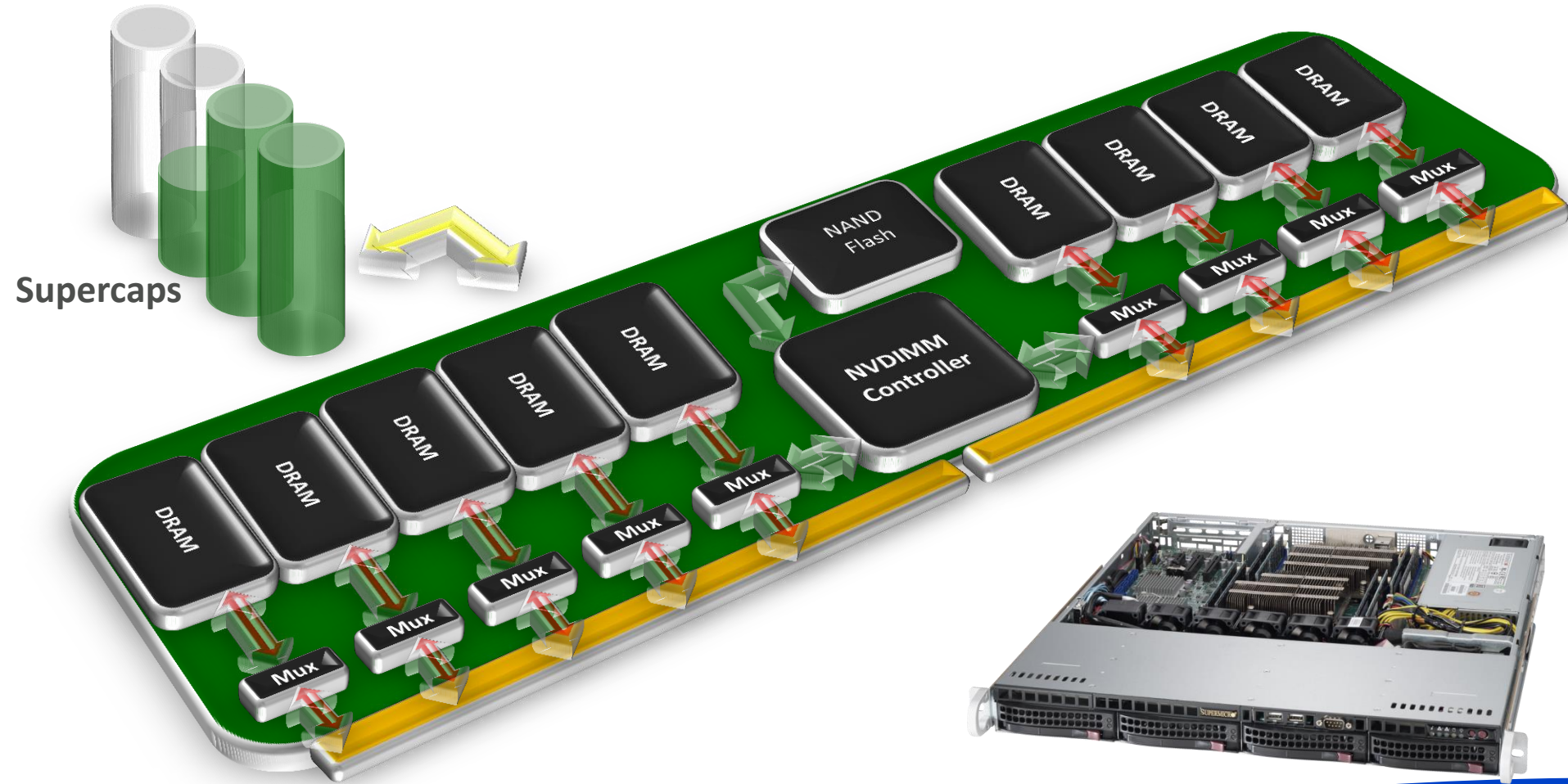


NVDIMM



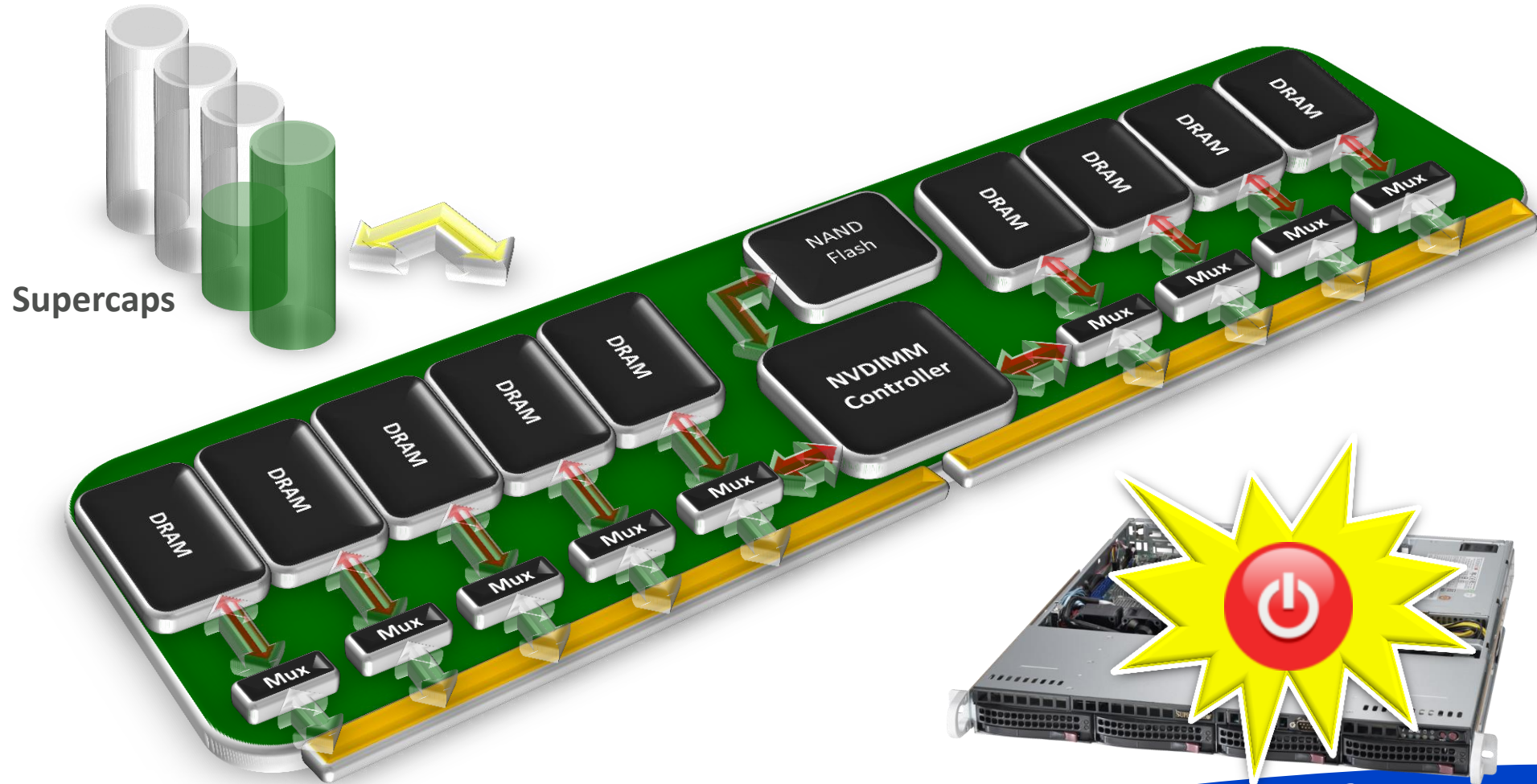
Как работает:

- Supercap Module заряжается при наличии питания
- NVDIMM готов к BACKUP данных в случае потери питания



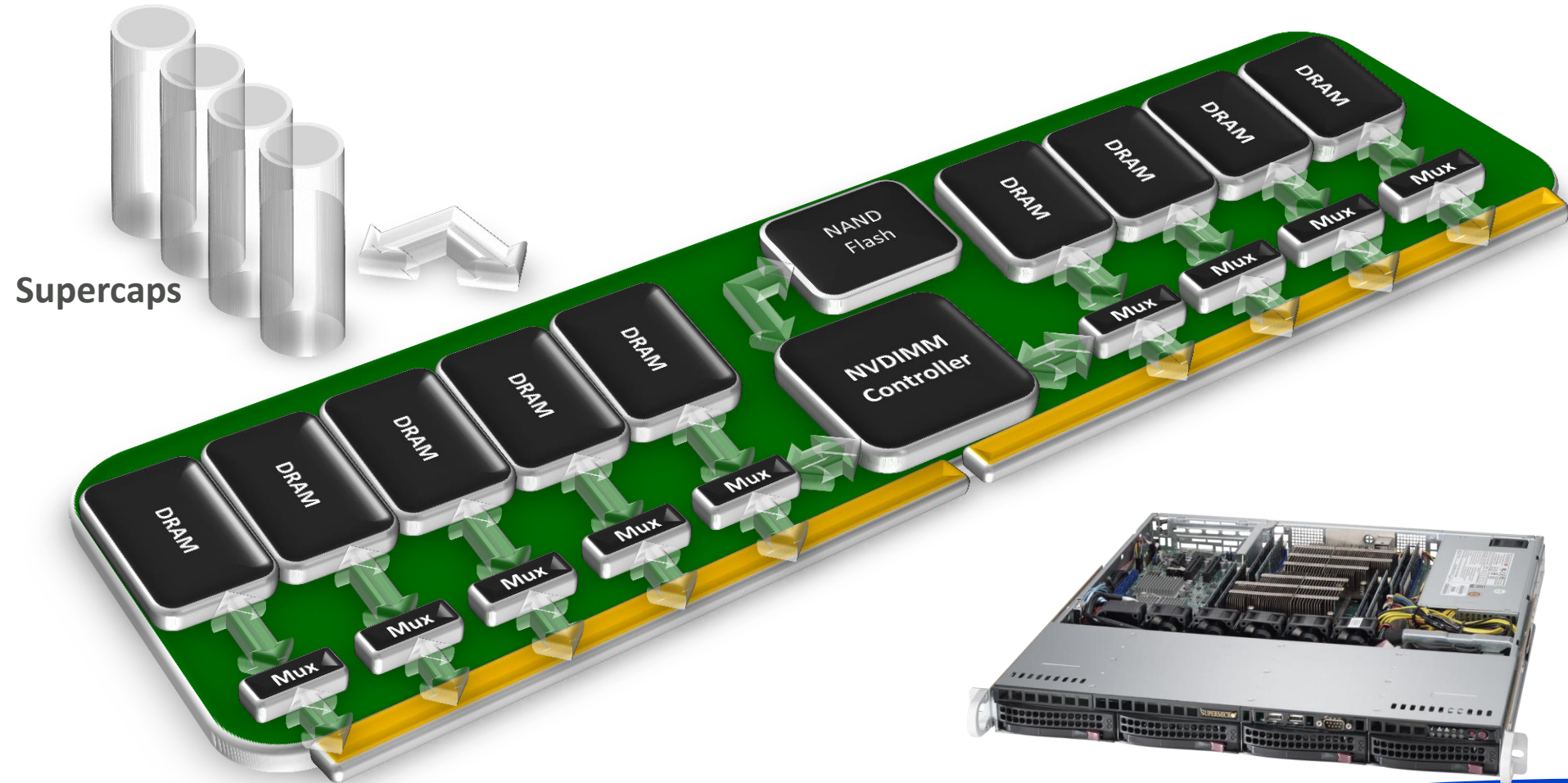
Как работает:

- В случае потери питания содержимое DRAM перемещается в NAND flash используя заряд Supercap Module



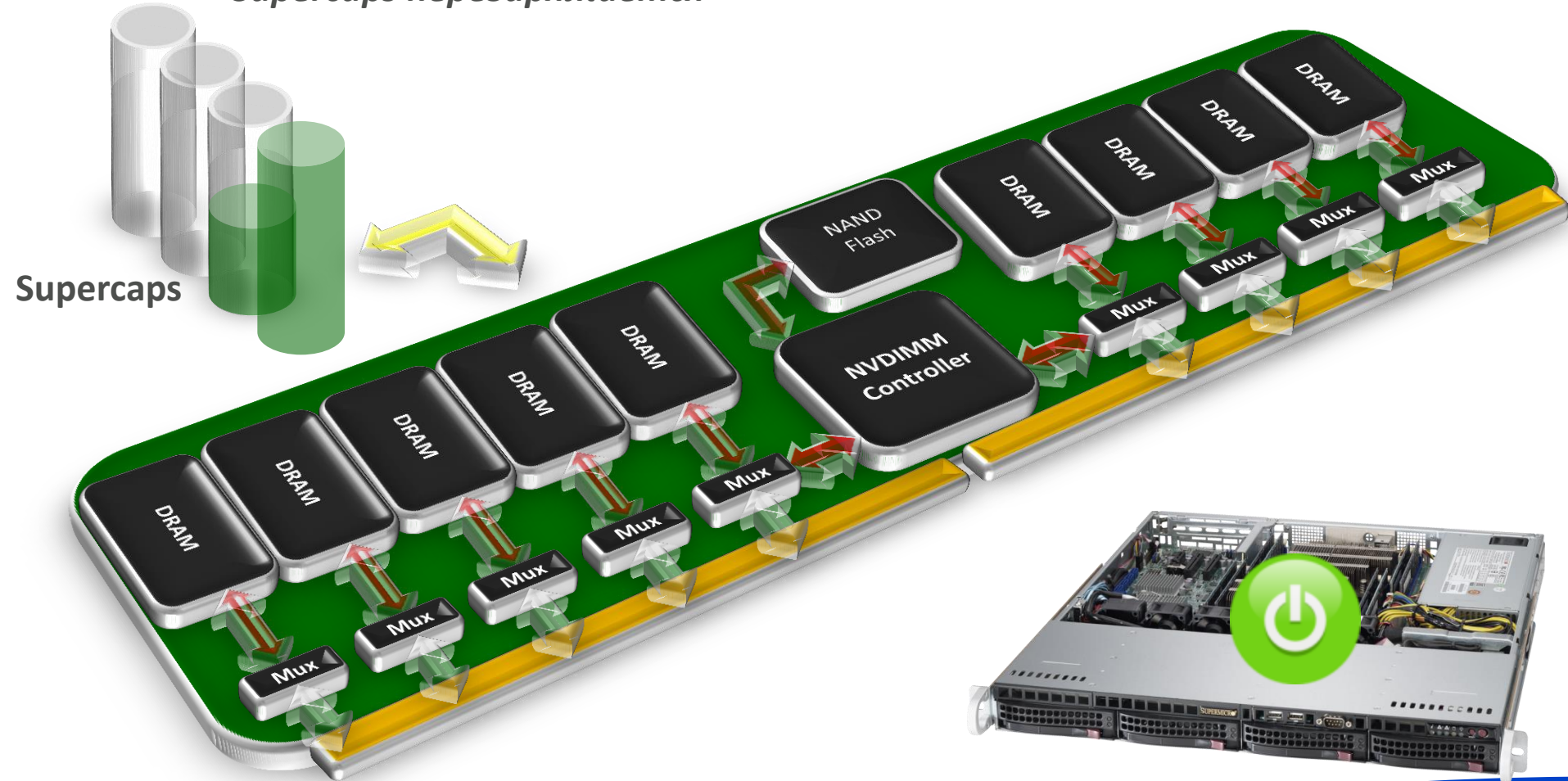
Как работает:

- Когда копирование завершено, NVDIMM отключается
- Поддержание сохранности данных в NAND Flash согласно спец.



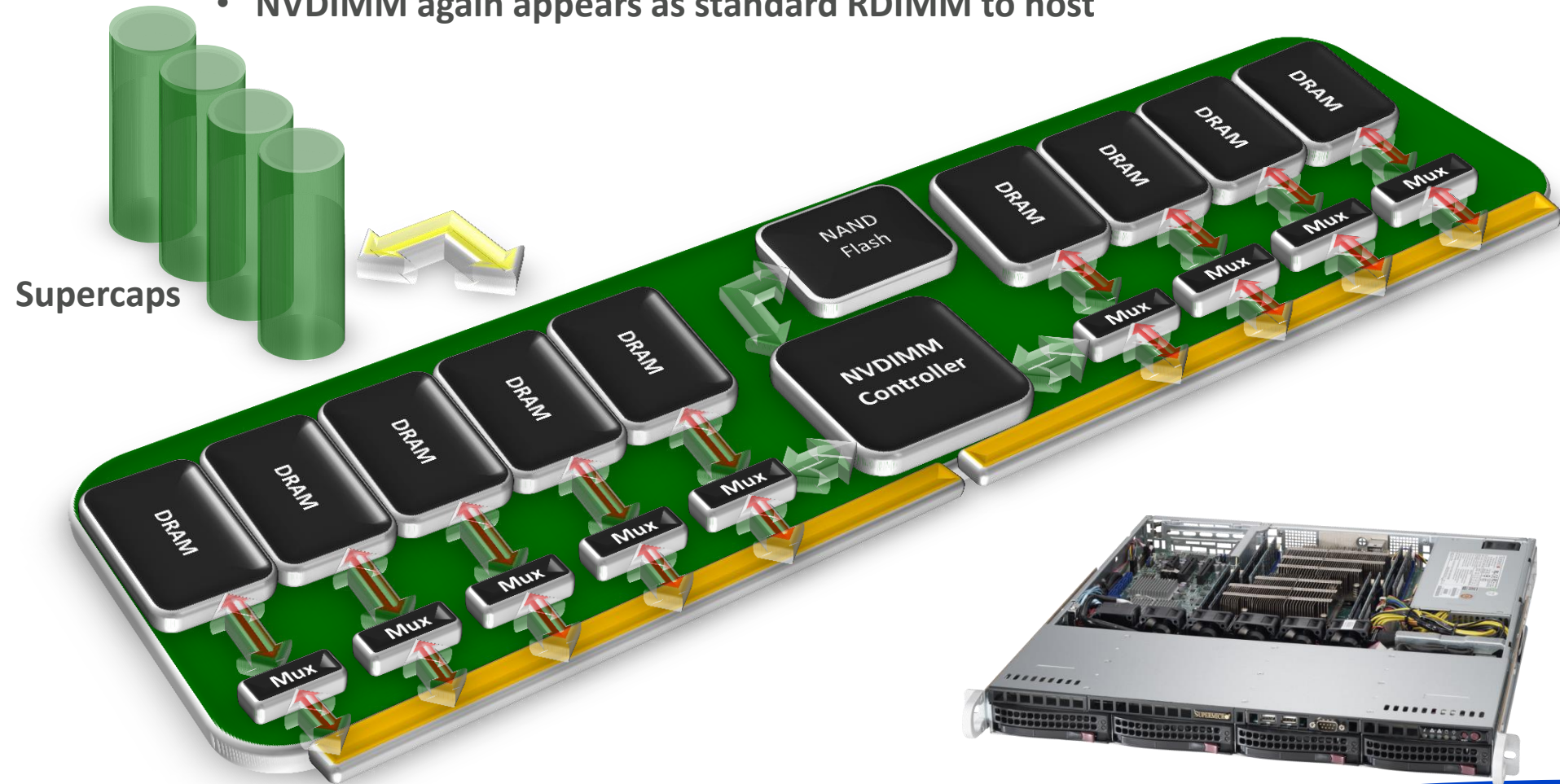
Как работает:

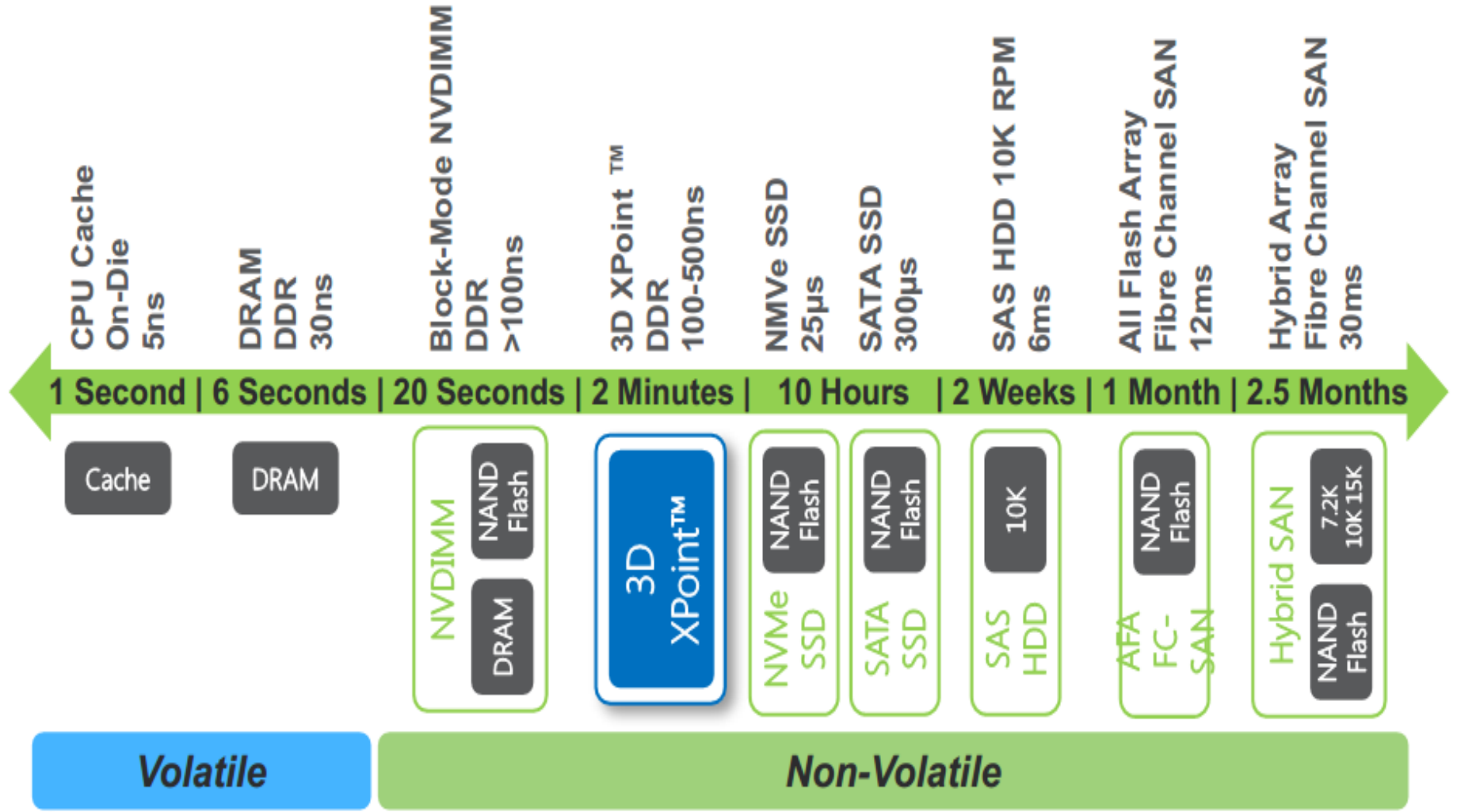
- При включении питание, System BIOS распознает, что в NAND Flash и NVDIMM-контроллере есть ранее созданная резервная копия. Восстанавливает содержимое DRAM из NAND Flash.
- Supercaps перезаряжается



How It Works

- DRAM operation returned to host
- DRAM contents in restored state prior to power loss
- NVDIMM again appears as standard RDIMM to host





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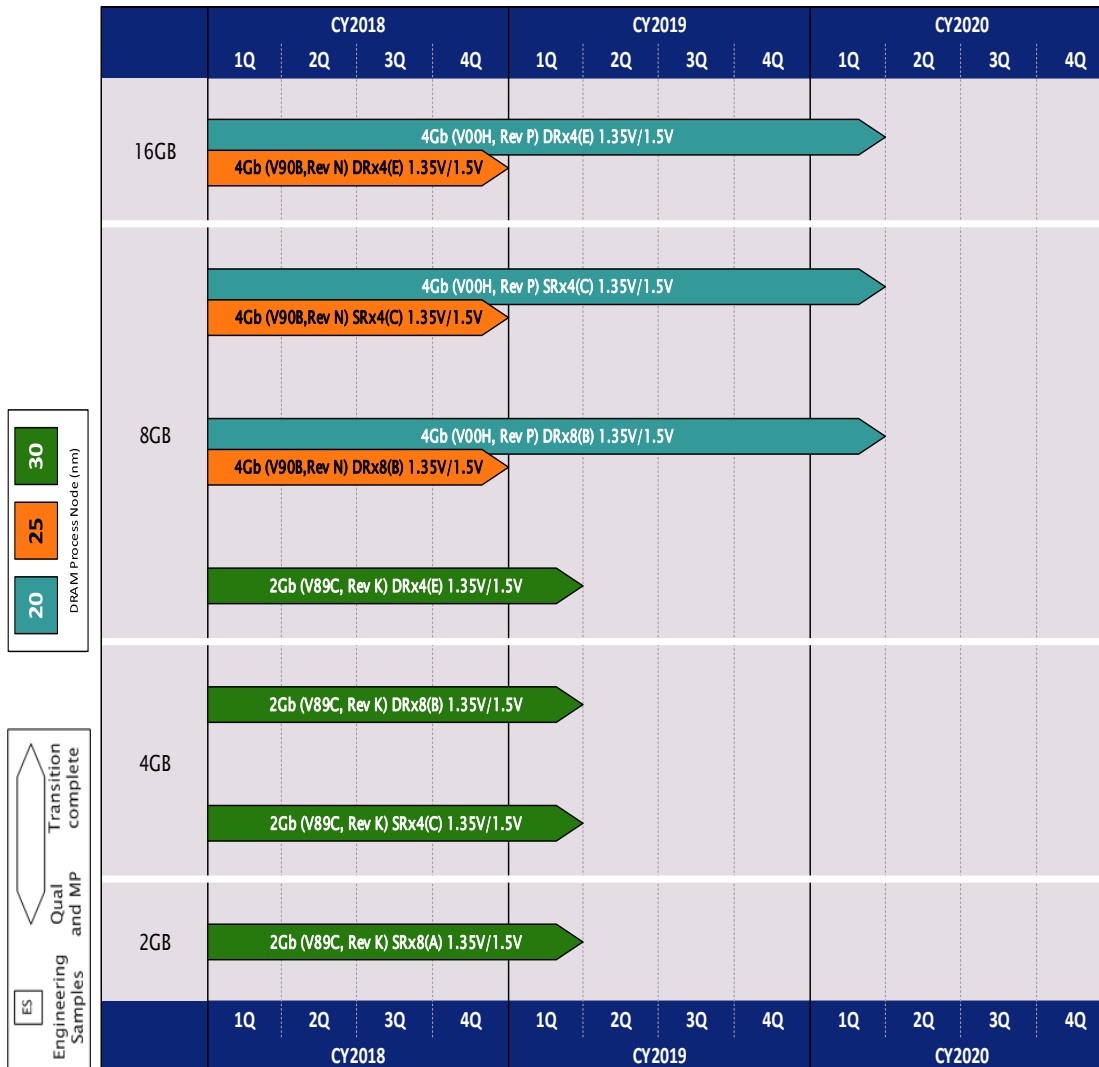


DDR3 Server Module Roadmaps

DDR3 RDIMM (Server)

Server DDR3 RDIMM

Created: 3/2/2018



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Key Points

Voltage / Speed

- 1.35V; 1600MT/s mainstream
- 1.5V; 1866MT/s mainstream

Note: Additional speeds available if needed.

Roadmap Direction

- 8GB continued consistent demand
- 16GB continues to be mainstream density

CY2017 Preferred RDIMMs

- 16GB: 1.5V/1866 2Rx4
- 16GB: 1.35V/1600 2Rx4
- 8GB: 1.5V/1866 1Rx4
- 8GB: 1.35V/1600 2Rx8

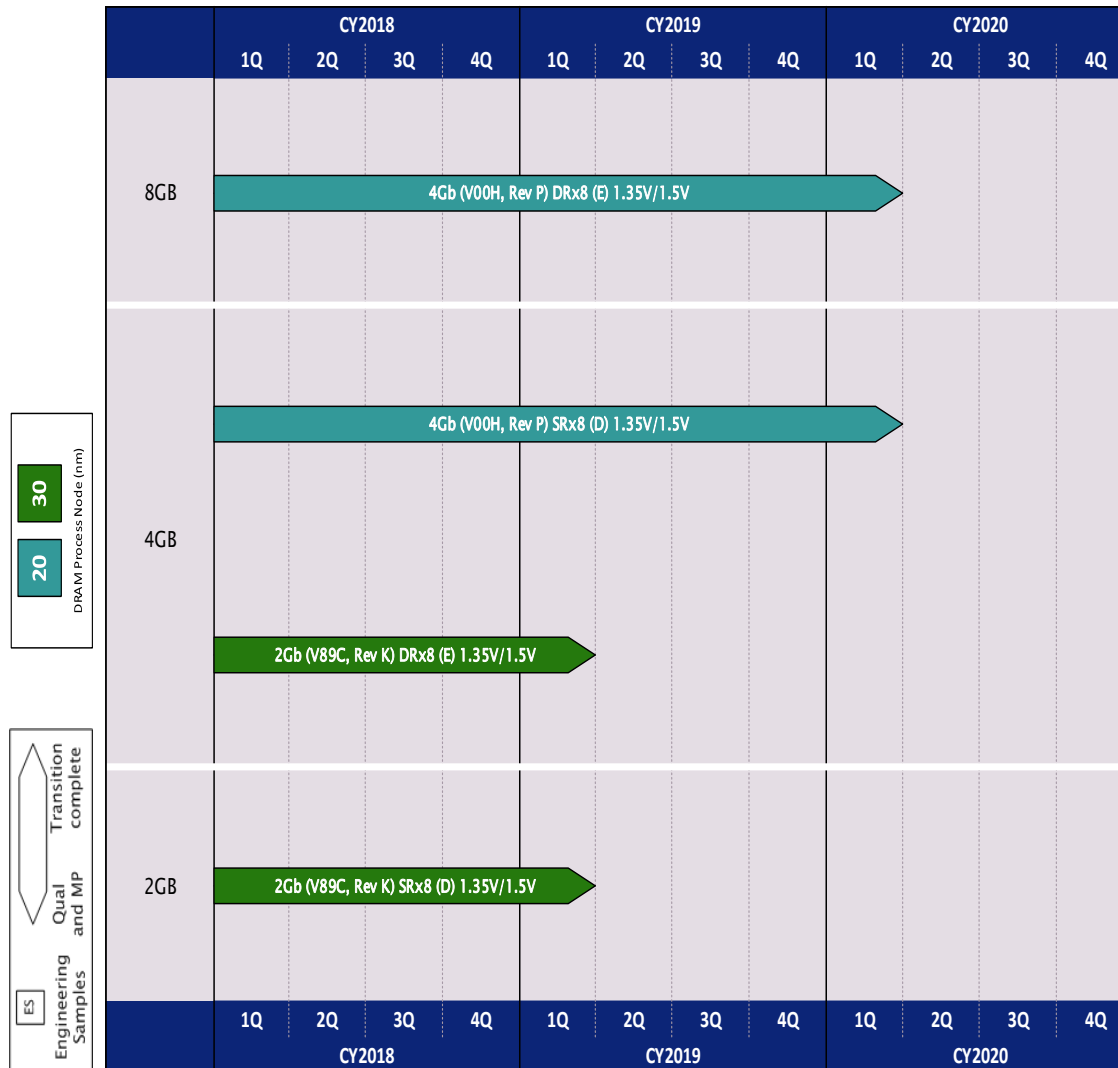
Future Support:

- Continued 8GB and 16GB RDIMM support on newer process nodes

DDR3 ECC UDIMM (Server)

Server DDR3 ECC UDIMM

Created: 3/2/2018

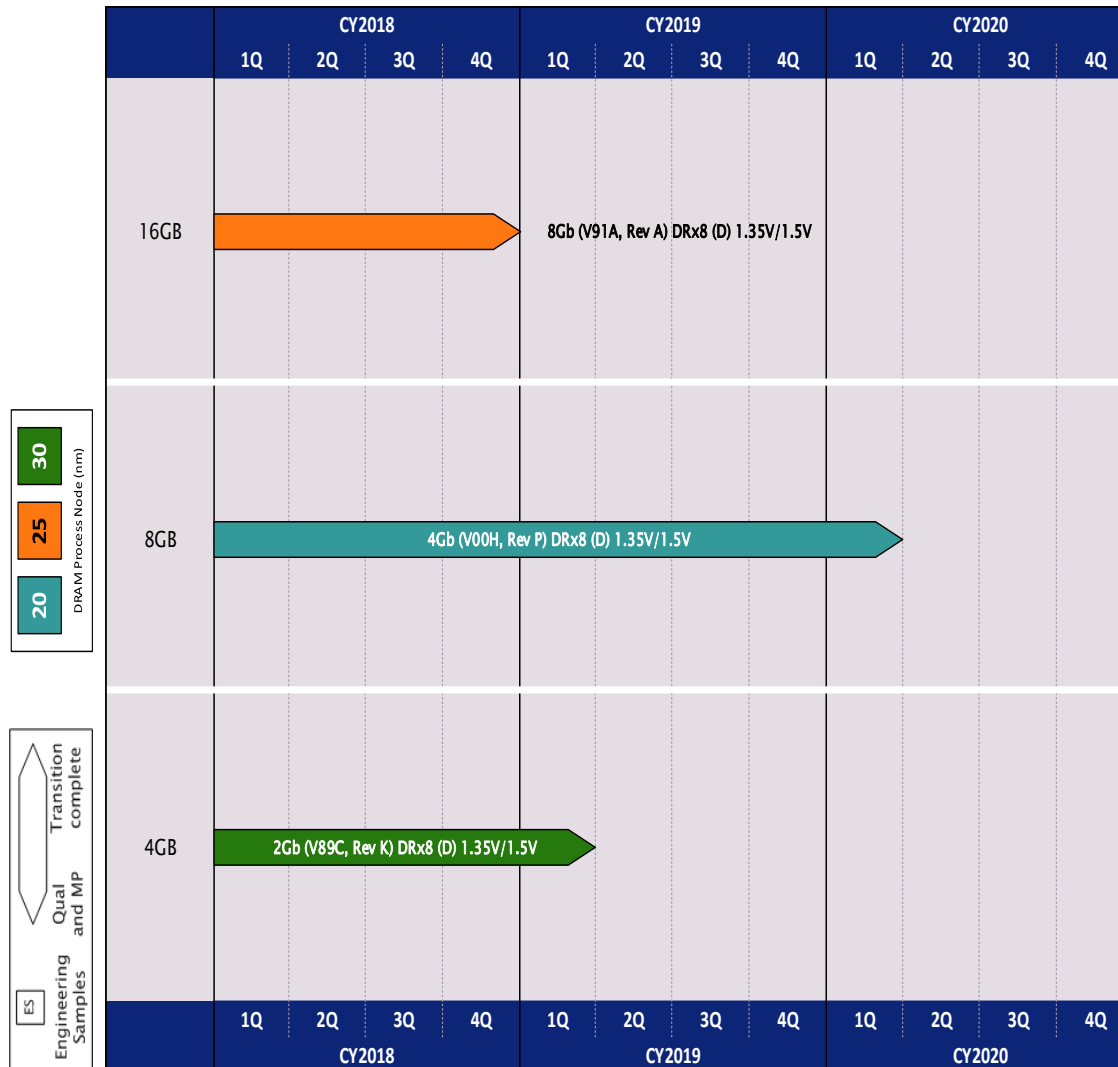


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DDR3 ECC SODIMM (Server)

Server DDR3 ECC SODIMM

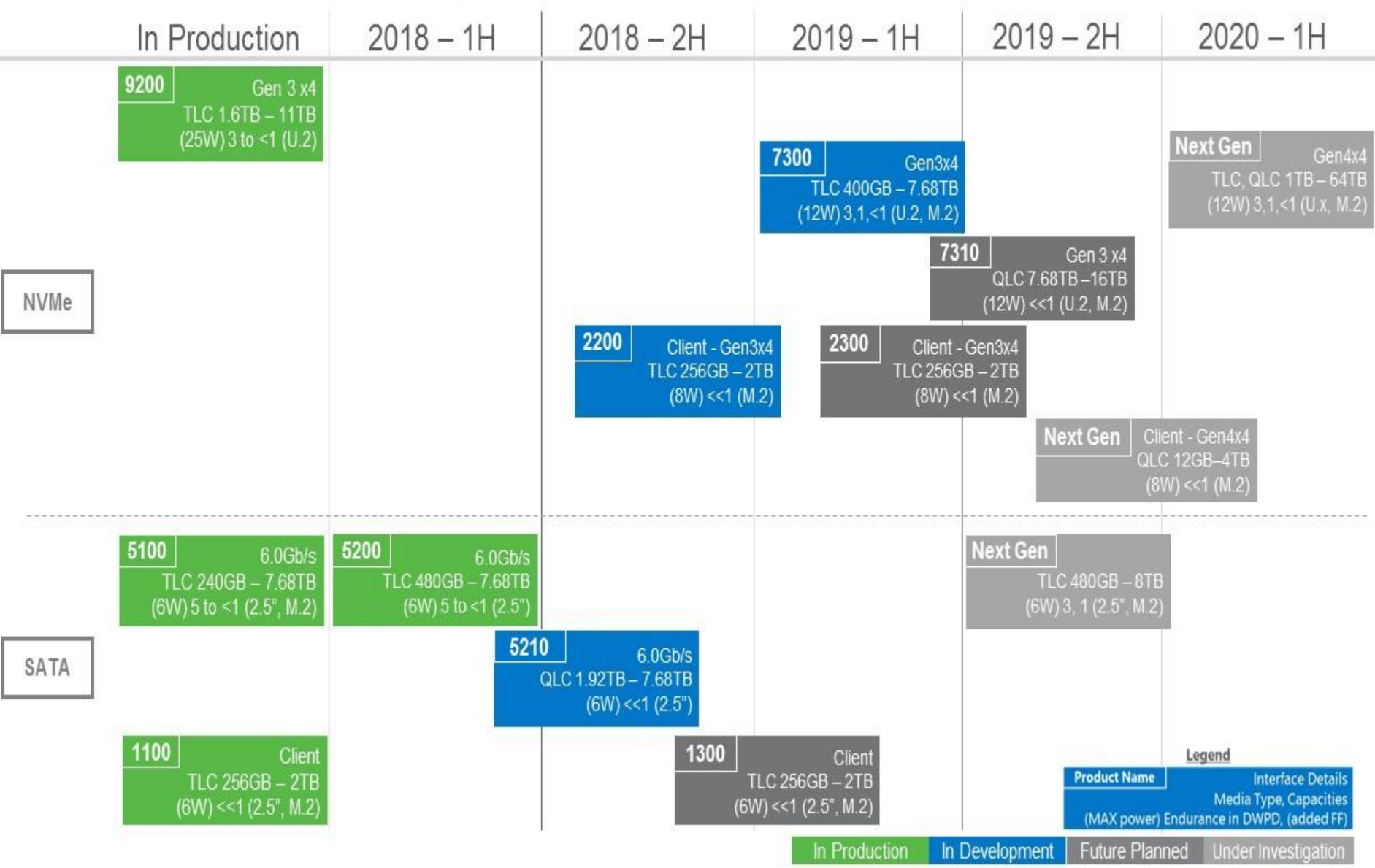
Created: 3/2/2018



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Micron One Page SSD Roadmap

Micron SSD Storage Roadmap



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Micron Client OEM SSD Roadmap

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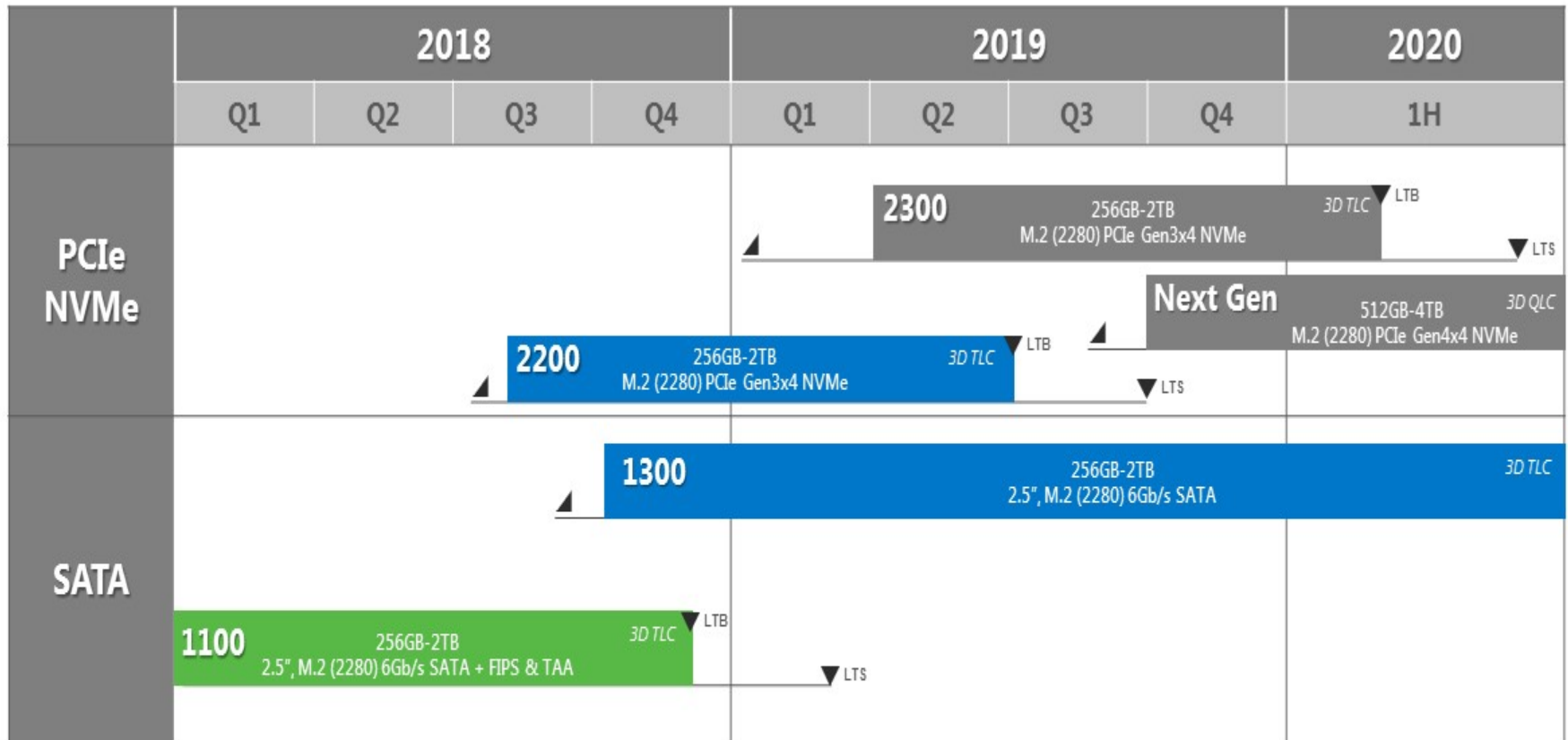
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Micron Client OEM SSD Roadmap Changes

- **1100**
 - Added LTB/LTS timing
- **1300**
 - No Changes
- **2200**
 - Reset the QS Date from April 6th to August 8th, Added LTB/LTS timing
- **2300**
 - Moved the QS date from Jan'19 – Mar'19, Added LTB/LTS timing

Micron Client OEM SSD Roadmap



Engineering Samples and Last Time Buy/Ship dates are for planning purposes only.
 Left edge of box indicates development/planning production target.

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Micron Client OEM SSD Product Milestone Matrix

Product	Capacity	Form Factor	Sample/Production	LTB	LTS	Comments
1100	256GB, 512GB, 1TB, 2TB	2.5", M.2 (2280)	Released	Q4'18	Q1'19	
1100 FIPS	256GB, 512GB	2.5", M.2 (2280)	Released	Q4'18	Q1'19	
2200	256GB, 512GB, 1TB, 2TB	2.5", M.2 (2280)	Q3'18	TBD	TBD	
1300	256GB, 512GB, 1TB, 2TB	2.5", M.2 (2280)	Q4'18	TBD	TBD	

- Official End Of Life dates (including LTB and LTS) are listed in Micron PCNs. Please contact your local Micron sales representative for official details.
- Micron SSD product – Production and Development

Micron Industrial SSD Product Milestone Matrix

Product	Capacity	Form Factor	Sample/Production	LTB	LTS	Comments
M500IT	60GB, 120GB, 240GB	2.5"	Released	CQ2'18	CQ4'18	
M500IT	60GB, 120GB, 240GB	mSATA	Released	CQ2'18	CQ4'18	
M500IT	64GB, 128GB, 256GB	2.5"	Released	CQ2'21	CQ4'21	64GB – LTB 6/30/19; LTS 12/30/19
M500IT	64GB, 128GB, 256GB	mSATA	Released	CQ2'21	CQ4'21	64GB – LTB 6/30/19; LTS 12/30/19
M500IT	32GB, 64GB, 128GB (SLC)	2.5"	Released	CQ2'21	CQ4'21	32GB – LTB 6/30/19; LTS 12/30/19
M500IT	32GB, 64GB, 128GB (SLC)	mSATA	Released	CQ2'21	CQ4'21	32GB – LTB 6/30/19; LTS 12/30/19
2100AI and 2100AT	64GB, 128GB, 256GB, 512GB, 1024GB	uSSD (BGA)	Q1'19	CQ2'23	CQ4'23	
2100AI	128GB, 256GB	M.2	Q1'19	CQ2'23	CQ4'23	

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- Micron SSD product – Production and Development

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Micron Enterprise SSD Roadmap

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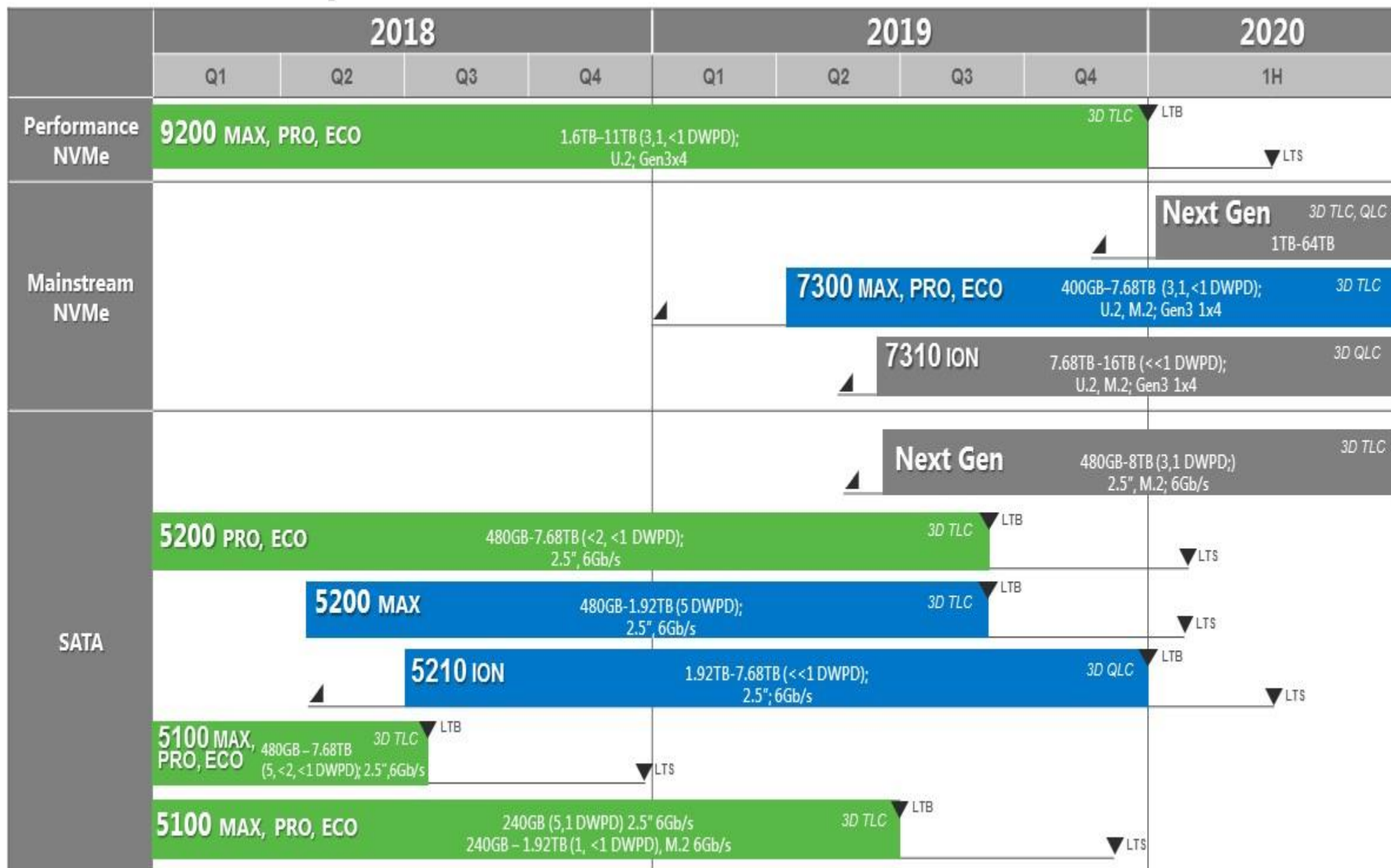
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Micron Enterprise SSD Roadmap Changes

- **9200**
 - Added LTB/LTS timing
- **7300 MAX, PRO, ECO**
 - Added LTB/LTS timing
- **7310 ION**
 - Added ION Designator
- **5200 PRO, ECO**
 - Added LTB/LTS timing
- **5200 MAX**
 - Added to the Roadmap
- **5210 ION**
 - Added ION Designator, Added LTB/LTS timing

Micron Enterprise SSD Portfolio



Engineering Samples and Last Time Buy/Ship dates are for planning purposes only. DWPD = Drive Writes Per Day. Left edge of box indicates development/planning production target. **For Micron NDA Customers only.**



Micron Enterprise SSD Product Milestone Matrix

Product	Capacity	Form Factor	Sample/Production	*LTB	*LTS	Comments
9200 ECO	8TB, 11TB	U.2	Released	Q4'19	Q1'20	
9200 PRO	1.92TB, 3.84TB, 7.68TB	U.2	Released	Q4'19	Q1'20	
9200 MAX	1.6TB, 3.2B, 6.4TB	U.2	Released	Q4'19	Q1'20	
5100 ECO	480GB, 960GB, 1.92TB, 3.84TB, 7.68TB	2.5"	Released	Q2'18	Q4'18	
5100 PRO	480GB, 960GB, 1.92TB	2.5"	Released	Q2'18	Q4'18	
5100 PRO	240GB, 3.84TB	2.5"	Released	Q2'19	Q4'19	
5100 MAX	480GB, 960GB, 1.92TB	2.5"	Released	Q2'18	Q4'18	
5100 MAX	240GB	2.5"	Released	Q2'19	Q4'19	
5100 ECO	480GB, 960GB, 1.92TB	M.2	Released	Q2'19	Q4'19	
5100 PRO	240G, 480GB, 960GB, 1.92TB	M.2	Released	Q2'19	Q4'19	
5200 ECO	480GB, 960GB, 1.92TB, 3.84TB, 7.68TB	2.5"	Released	Q3'19	Q1'20	
5200 MAX	480GB, 960GB, 1.92TB	2.5"	Q2'18	Q3'19	Q1'20	
5210 ION	1.92TB, 3.84TB, 7.68TB	2.5"	Q2'18	Q4'19	Q2'20	
7300 MAX	400GB, 800GB, 1.6TB, 3.2TB, 6.4TB	U.2	Q2'19	TBD	TBD	
7300 PRO	480GB, 960GB, 1.92TB, 3.84TB, 7.68TB	U.2	Q1'19	TBD	TBD	
7300 ECO	1TB, 2TB	U.2	Q1'19	TBD	TBD	
7300 MAX	400GB, 800GB, 1.6TB, 3.2TB	M.2	Q2'19	TBD	TBD	
7300 PRO	480GB, 960GB, 1.92TB, 3.84TB	M.2	Q1'19	TBD	TBD	
7300 ECO	1TB, 2TB	M.2	Q1'19	TBD	TBD	

* Official End Of Life dates (including LTB and LTS) are listed in Micron PCNs. Please contact your local Micron sales representative for official details.

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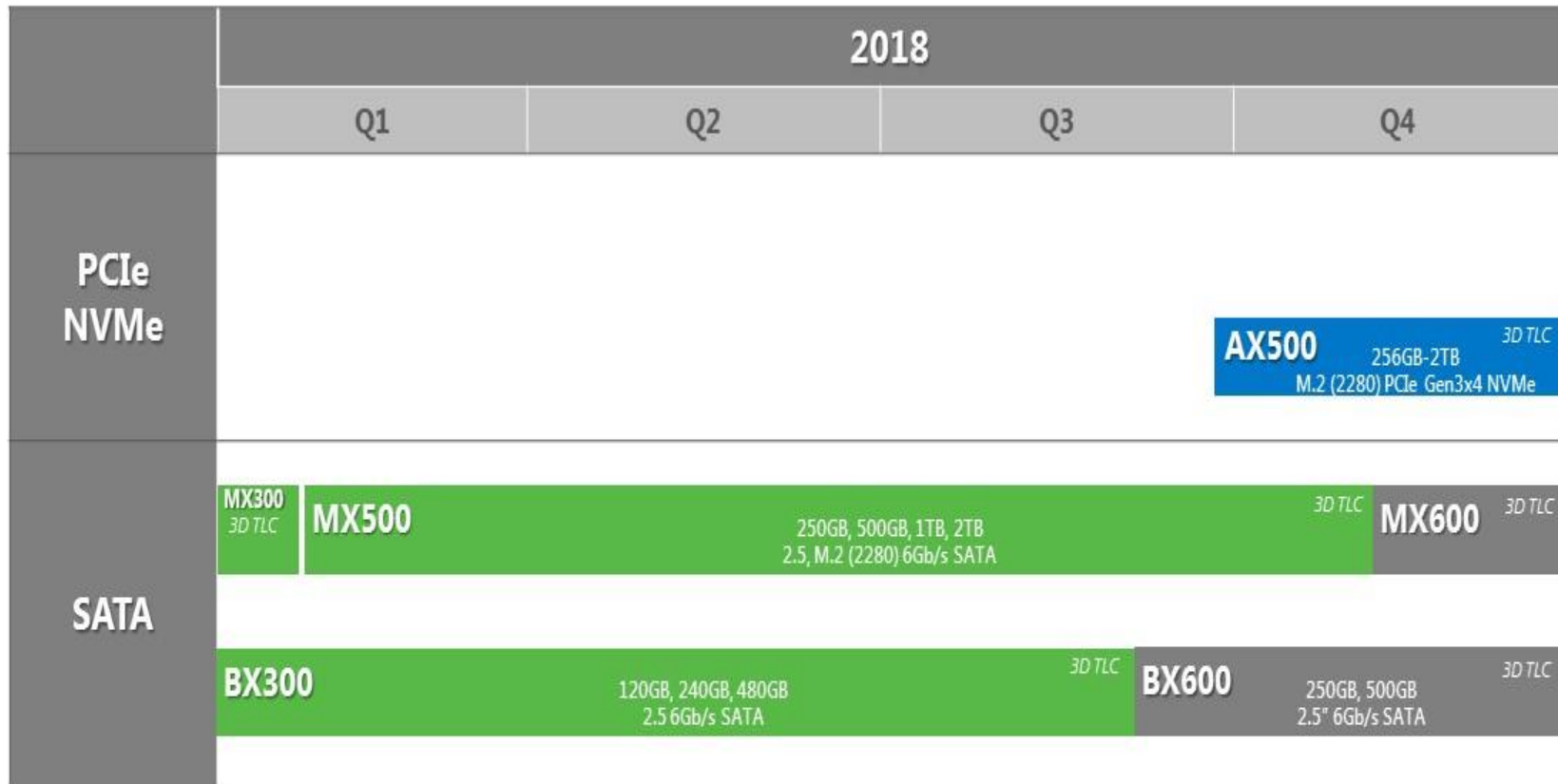
Micron Client Consumer SSD Roadmap

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Micron Client Consumer SSD Roadmap



ES dates; Left edge of box indicates Development/Planning Production target
 Right side of box does not indicate EOL timing; Please consult your local Micron/CPG Sales Representative for official dates

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Micron Client Consumer SSD Product Milestone Matrix

Product	Capacity	Form Factor	Production	Comments
AX500	256GB – 2TB	M.2 (2280)	Q3'18	
MX500	250GB, 500GB, 1TB, 2TB	M.2 (2280)	Feb'18	
MX500	1TB 250GB, 500GB, 2TB	2.5"	Released	
MX300	750GB	2.5"	Released	
MX300	275GB, 525GB, 1050GB	2.5"	Released	
MX300	275GB	M.2 (2280)	Released	
MX300	2050GB	2.5"	Released	
MX300	525GB, 1050GB	M.2 (2280)	Released	
BX300	120GB, 240GB, 480GB	2.5"	Released	

* Official End Of Life dates (including LTB and LTS) are listed in Micron PCNs. Please contact your local Micron sales representative for official details.

