

ADVANTECH

DRAM Memory Module

Portfolio Introduction

PAPS Product Management
Q3 / 2013

PART I.

**ADVANTECH QUALIFIED DIMM
(AQD)**

ADVANTECH QUALIFIED DIMM

Built to Last ---

The toughest memory module for rigorous applications



QUALITY



RELIABILITY



COMPATIBILITY



LONGEVITY



**LIFE-TIME
WARRANTY**



**Quality
Assurance**

Rigorous Reliability
Tests

Cross-Checked
Compatibility

Longevity

Life-Time Warranty

Quality Assurance Program

Carefully
Selected
Premium
Materials

ISO-9000
Manufacturing
Process

Industrial
Testing
Standard

Quality Assurance

**Rigorous
Reliability
Tests**

Cross-Checked
Compatibility

Longevity

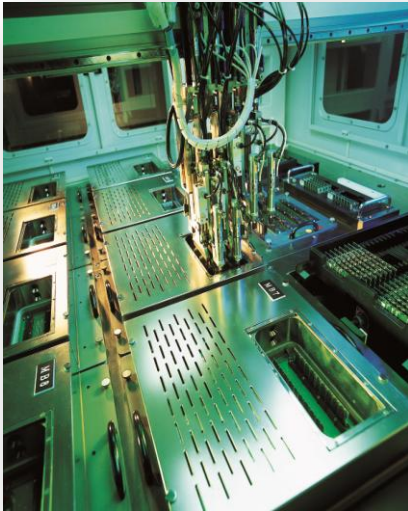
Life-Time Warranty

100% Module
On Board
Testing

Vibration
Test

Chamber Test

Functional Test



Quality Assurance

Rigorous Reliability
Tests

**Cross-
Checked
Compatibility**

Longevity

Life-Time Warranty

Motherboard Team
DOA Testing Result

Memory Compatibility
Testing Result

Check & Compare
Both Teams Testing Result to
Ensure M/B vs. Memory
Compatibility



Part No	96D3-1G106NN-AP	96D3-1G106NN-TR	96D3-2G106NN-AP	96D3-2G106NN-TR	96D3-4G106NN-AP	96D3-1G1333NN-AP	96D3-1G1333NN-AP1	96D3-1G1333NN-SA	96D3-1G1333NN-TR	96D3-1G1333NN-TR1	96D3-2G1333NN-AP
ARK-DS302-S6A1E											
ARK-DS302-S6A1E											
ARK-DS302-S6A2E											
ARK-DS302-S6A2E											
ARK-DS350-00A1E											
ARK-DS350-00B1E											
ARK-DS350-U0A1E											
ARK-DS350-U2A1E											
ARK-DS350-U7B1E											
ARK-DS350-USB1E											
ASMB-310-00A1E											
ASMB-310R-00A1E											
ASMB-781G2-00A1E	x	x	x	x	x	x	x	x	x	x	x
ASMB-781G4-00A1E	x	x	x	x	x	x	x	x	x	x	x
ASMB-920-00A1E											
ASMB-920R-00A1E											
FWA-3210A											
FWA-3210B											
FWA-6500BE											

Quality Assurance

Rigorous Reliability
Tests

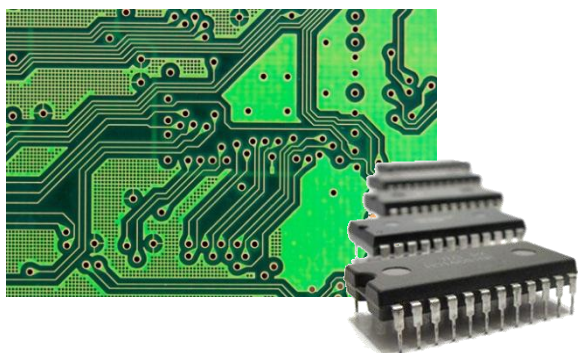
Cross-Checked
Compatibility

Longevity

Life-Time Warranty

Locked BOM

- IC Spec
- PCB Layout



**Minimum
3 Years
Longevity**

Quality Assurance

Rigorous Reliability
Tests

Cross-Checked
Compatibility

Longevity

Life-Time Warranty

**Every ADVATECH QUALIFIED
DIMM (AQD) is back up by life-
time warranty.**

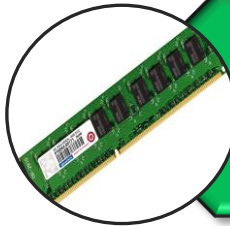


AQD Product Portfolio



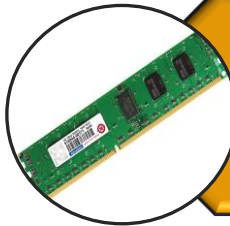
Unbuffered DIMM

- * General IPC Applications
- * 1GB, 2GB, 4GB & 8GB



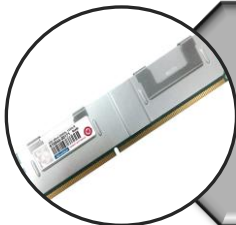
ECC Unbuffered DIMM

- * Improve system productivity and efficiency
- * 4GB & 8GB



Registered DIMM

- * Providing the best solution for capacity and performance requirement.
- * 8 GB & 16GB



Load Reduce DIMM

- * Providing the biggest capacity per server with the lowest energy costs
- * 32GB

AQD Products Offering

**LONG & SHORT
Unbuffered DIMM**

LONG DIMM
DDR3-1333
1G



AQR-D31GN13-SX

LONG DIMM
DDR3-1600
2G



AQR-D3L2GN16-SQ

LONG DIMM
DDR3-1600
4G



AQR-D3L4GN16-SQ

LONG DIMM
DDR3-1600
8G



AQR-D3L8GN16-SQ

SHORT DIMM
DDR3-1333
1G



AQR-SD31GN13-SX

SHORT DIMM
DDR3-1600
2G



AQR-SD3L2GN16-SQ

SHORT DIMM
DDR3-1600
4G



AQR-SD3L4GN16-SG

SHORT DIMM
DDR3-1600
8G



AQR-SD3L8GN16-SG

LONG DIMM
DDR3-1600
4G



AQR-D3L4GE16-SG

LONG DIMM
DDR3-1600
8G



AQR-D3L8GE16-SG

LONG DIMM
DDR3-1600
8G



AQR-D3L8GRV16-SG

LONG DIMM
DDR3-1600
16GB



AQR-D3L16RV16-SM

Load Reduce DIMM

DDR3-1333
32G



AQR-D3L32L13-SM

Registered DIMM

Part Number Decoder

PRODUCT NAME	TYPE	VOLTAGE	CAPACITY	ADVNCED FEATURE	Height	SPEED	FAB	VERSION
A Q D	S D 3	L	2 G	N	V	1 6	S	G
A=Advantech Q=Qualified D=DIMM	DM=SDRAM DIMM DR=DDR D2=DDR2 D3=DDR3 SS=SDRAM SO-DIMM SD=DDR SO-DIMM SD2=DDR2 SO-DIMM SD3=DDR3 SO-DIMM	Blank= 1.5V L=1.35V U=1.25V	1G=1GB 2G=2GB 4G=4GB 8G=8GB 16 =16GB 32 =32GB 64= 64GB	N= NON-ECC and NON REGISTER R= REGISTER E= ECC ONLY L=Load reduce	V= VLP	40=400Mt/s 53=533Mt/s 66=667Mt/s 80=800Mt/s 10=1066Mt/s 13=1333Mt/s 16=1600Mt/s 18=1866Mt/s	S=Samsu ng H=Hynix M=Micron /Elpida N=Nanya	X=1Gb(128Mx8) T=1Gb(256Mx4) Q=2Gb(256Mx8) Y=2Gb(512Mx4) G=4Gb(512Mx8) Z= 4Gb(1Gbx4) M=8Gb(2Gbx4)

Color / Symbol Key

Available

Phasing-out

Planning

ECC

Registered

Fully Buffered

New

Load-Reduce

Very Low-Profile

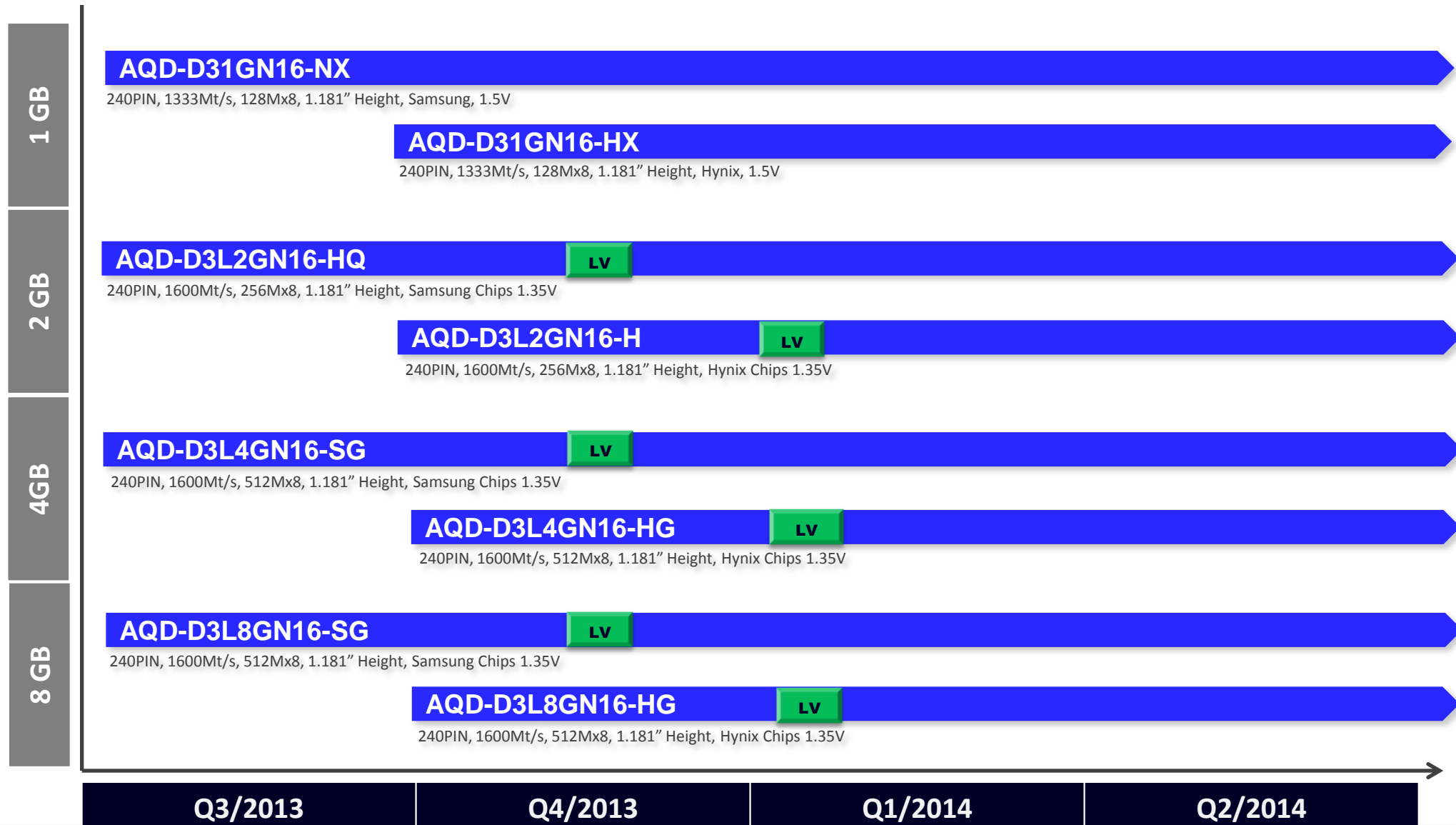
Wide Temperature

Low-Voltage

AQD DDR3 Memory Modules Portfolio

DDR3 1.35 Low Voltage		1333		1600	
		LONG	SHORT	LONG	SHORT
		AQD-D31GN13-SX (1.5V)	AQD-SD31GN13-SX (1.5V)		
U-DIMM	1GB (128X8)				
	2GB (256MX8)			AQD-D3L2GN16-SQ	AQD-SD3L2GN16-SQ
	4GB (512MX8)			AQD-D3L4GN16-SG	AQD-SD3L4GN16-SG
	8GB (512MX8)			AQD-D3L8GN16-SG	AQD-SD3L8GN16-SG
ECC U-DIMM	4GB (512MX8)			AQD-D3L4GE16-SG	
	8GB (512MX8)			AQD-D3L8GE16-SG	
R-DIMM	4GB (512MX8)				
	8GB (512MX8)			AQD-D3L8GRV16-SG	
	16GB(2Gbx4)			AQD-D3L16RV16-SM	
LOAD REDUCE	32GB (2GbX4)	AQD-D3L32L13-SM			

DDR3 DIMM



DDR3 SO-DIMM



Q3/2013

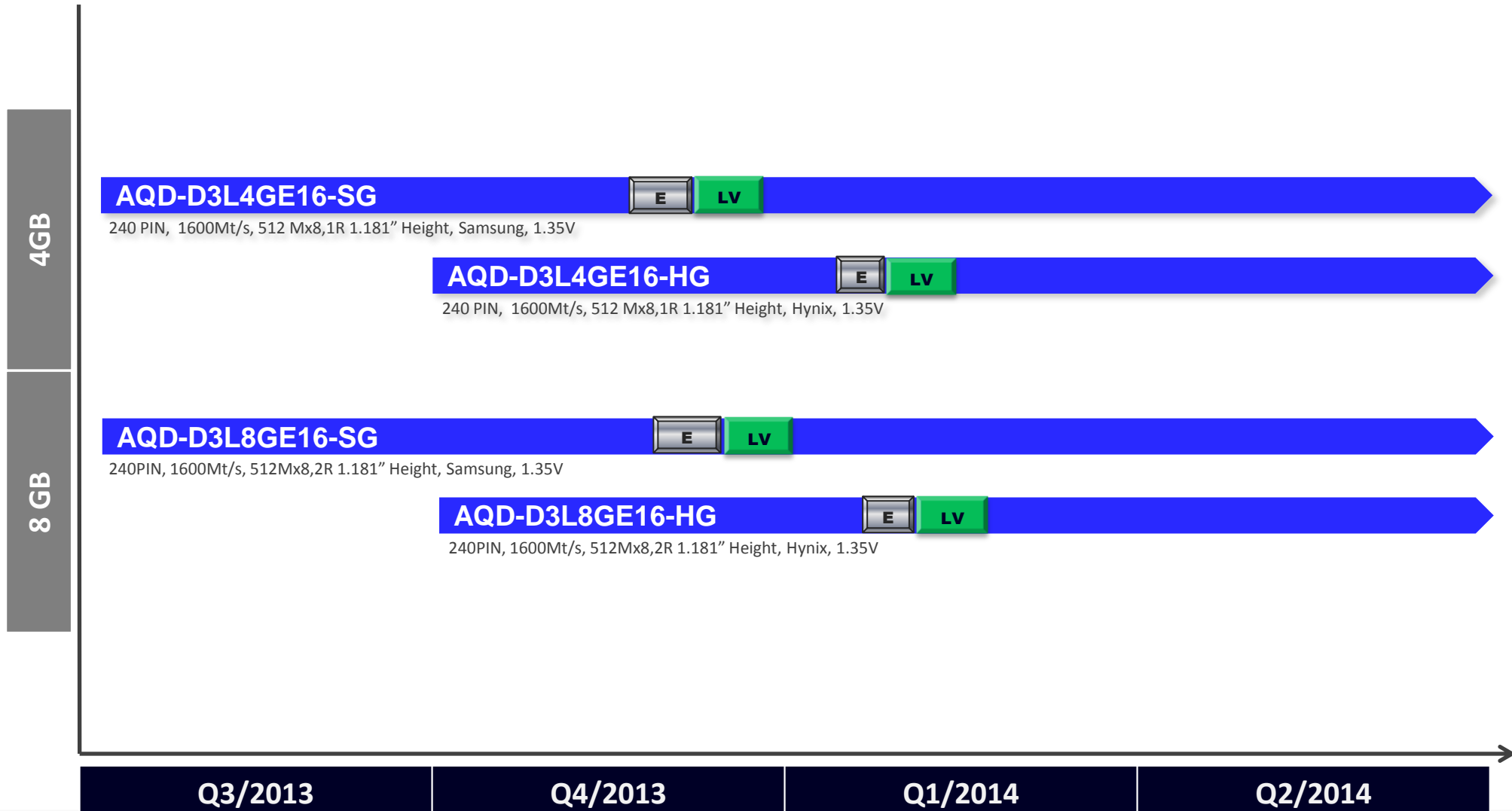
Q4/2013

Q1/2014

Q2/2014

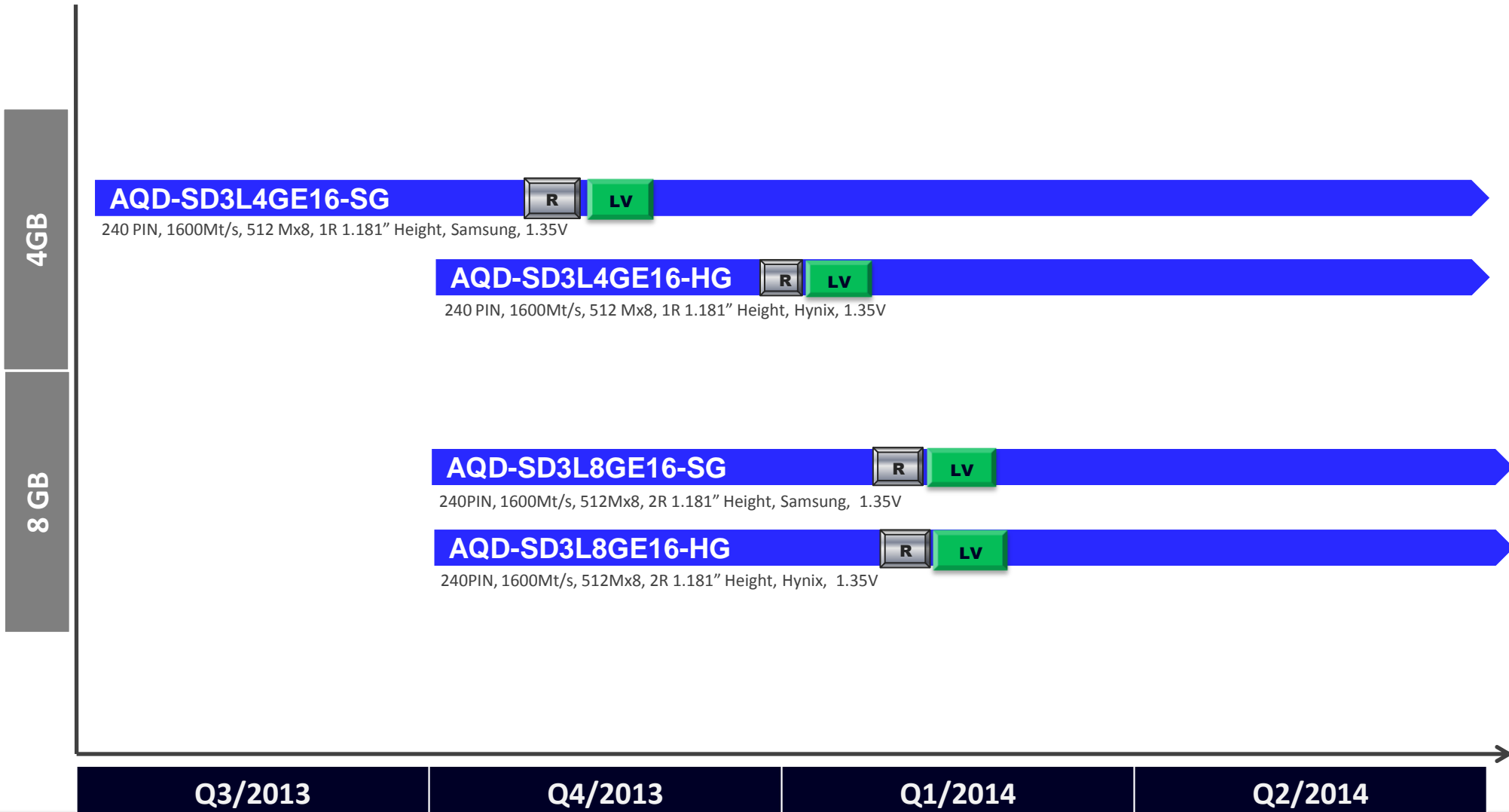
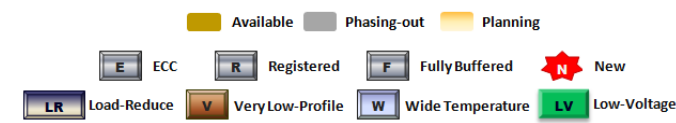
DDR3 DIMM Advance Feature

ECC



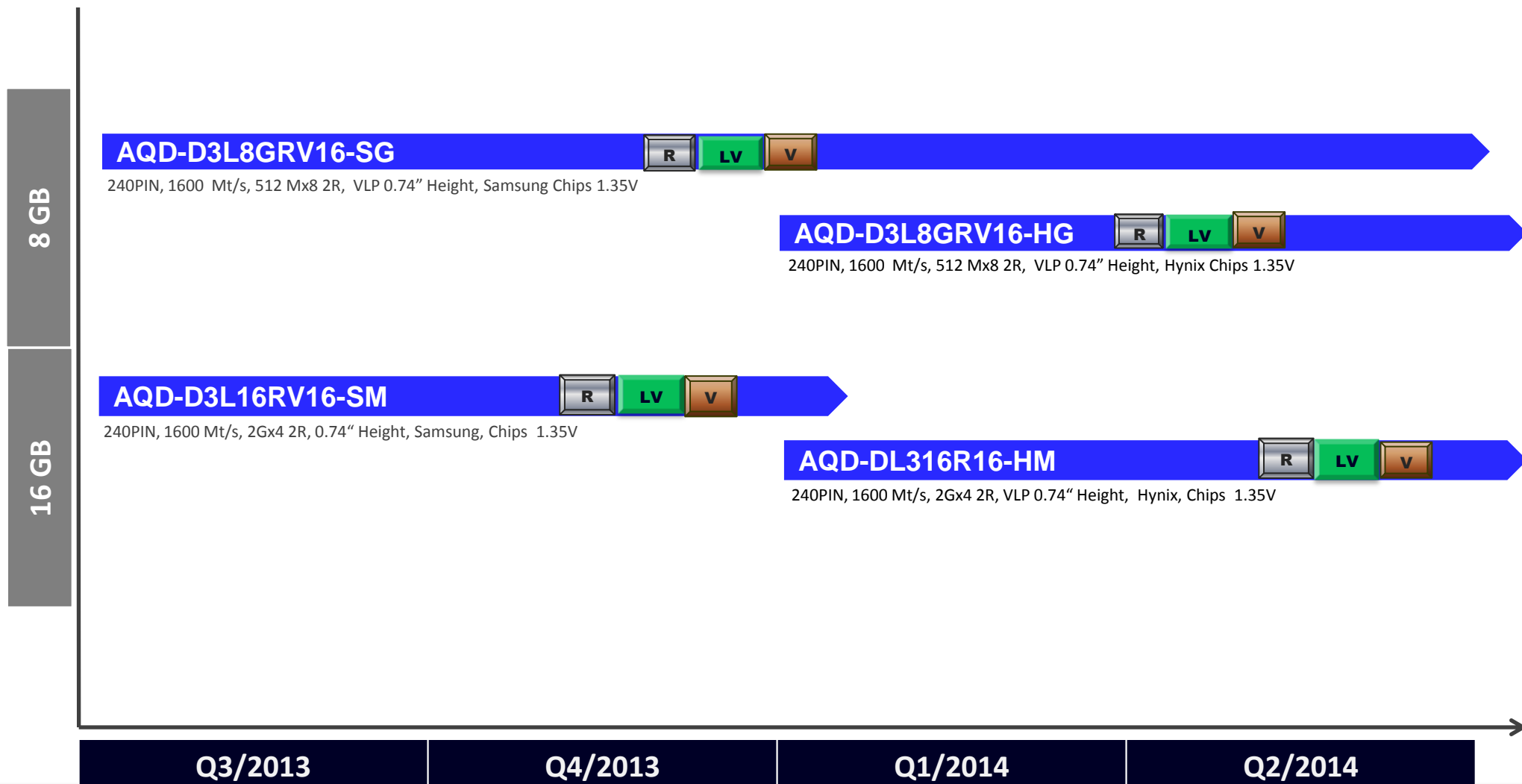
DDR3 SO DIMM Advance Feature

ECC



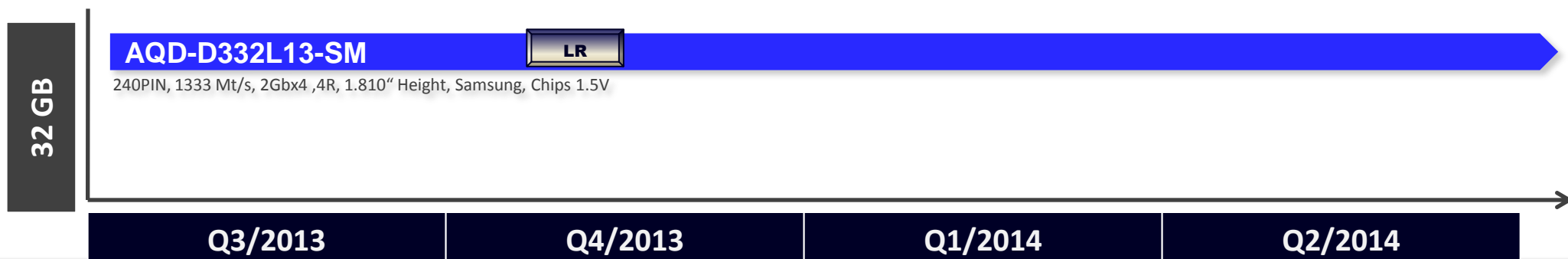
DDR3 DIMM Advance Feature

ECC and Registered



DDR3 DIMM Advance Feature

Load Reduce



AQR-D332L13-SM

LR

240PIN, 1333 Mt/s, 2Gbx4 ,4R, 1.810" Height, Samsung, Chips 1.5V

32 GB

Q3/2013

Q4/2013

Q1/2014

Q2/2014

PART II,

96 PARTS MEMORY MODULE

Part Number Decoder

9	6		D	M	—	6	4	M	1	0	0	N	N	—	A	P
Memory Type						Capacity			Speed			Advance Feature		Manufacturer		
DM=SDRAM DIMM DR=DDR DRI=INDUSTRIAL GRADE DDR D2=DDR2 D2I=INDUSTRIAL GRADE DDR2 D3=DDR3 SS=SDRAM SO-DIMM SD=DDR SO-DIMM SDI=INDUSTRIAL GRADE SO-DDR SD2=DDR2 SO-DIMM SD2I=INDUSRIAL GRADE SO-DDR2 SD3=DDR3 SO-DIMM SD3I=INDUSTRIAL GRADE SO-DDR3						64M=64MB 128M=128MB 256M=256MB 512M=512MB 1G=1GB 2G=2GB 4G=4GB 8G=8GB			100=100Mb/s 133=133Mb/s 266=266Mb/s 333=333Mb/s 400=400Mb/s 533=533Mb/s 667=667Mb/s 800=800Mb/s 1066=1066Mb/s 1333=1333Mbs			NN= NON-ECC and NON- REGISTER ER= ECC AND REGISTER E= ECC ONLY		AP=APACER ATL=ATP DA=DATA IK=INNODISK KI=KINGSTON MI=MIRCON SB=SWISSBIT TR=TRANSCEND VI=VIRTUUM		








Color / Symbol Key

Available Phasing-out Planning

E ECC	R Registered	F Fully Buffered	N New
L Low-Profile	V Very Low-Profile	W Wide Temperature	

SDRAM DIMM

Available Phasing-out Planning

 ECC  Registered  Fully Buffered  New
 Low-Profile  Very Low-Profile  Wide Temperature

64 MB

96DM-64M133NN-TR1



Transcend, 168PIN, 133Mb/s, 8Mx16, 0.905" Height, Samsung Chips

128 MB

96DM-128M133NN-TR

Transcend, 168PIN, 133Mb/s, 8Mx16, 1.250" Height, Samsung Chips

256 MB

96DM-256M133NN-TR

Transcend, 168PIN, 133Mb/s, 32Mx8, 1.150" Height, Samsung Chips

512 MB

96DM-512M133NN-TR

Transcend, 168PIN, 133Mb/s, 32Mx8, 1.150" Height, Samsung Chips

Q3/2013








Q4/2013

Q1/2014

Q2/2014

SDRAM SO-DIMM

Available Phasing-out Planning

 ECC
  Registered
  Fully Buffered
  New
  Low-Profile
  Very Low-Profile
  Wide Temperature

64 MB

96SS-64M133NN-TR



Transcend, 144PIN, 133Mb/s, 8Mx16, 0.945" Height, Samsung Chips

128 MB

96SS-128M133NN-TR

Transcend, 144PIN, 133Mb/s, 8Mx16, 1.150" Height, Samsung Chips

96SS-128M133NN-TR1



Transcend, 144PIN, 133Mb/s, 16Mx16, 0.945" Height, Samsung Chips

256 MB

96SS-256M133NN-TR

Transcend, 144PIN, 133Mb/s, 16Mx16, 1.250" Height, Samsung Chips

96SS-256M133NN-TR3

Transcend, 144PIN, 133Mb/s, 32Mx8, 1.150" Height, Samsung Chips

Q3/2013








Q4/2013

Q1/2014

Q2/2014

DDR DIMM

Available Phasing-out Planning

 ECC
  Registered
  Fully Buffered
  New
  Low-Profile
  Very Low-Profile
  Wide Temperature

256 MB

96DR-256M333NN-TR

Transcend, 184PIN, 333Mb/s, 32Mx8, 1.200" Height, Samsung Chips

96DR-256M333NN-AP2

Apacer, 184PIN, 333Mb/s, 32Mx8, 1.160" Height, Samsung Chips

96DR-256M400NN-TR

Transcend, 184PIN, 400Mb/s, 32Mx8, 1.160" Height, Samsung Chips

512 MB

96DR-512M333NN-TR

Transcend, 184PIN, 333Mb/s, 32Mx8, 1.250" Height, Samsung Chips

96DR-512M333NN-AP2

Apacer, 184PIN, 333Mb/s, 32Mx8, 1.160" Height, Samsung Chips

96DR-512M400NN-TR1

Transcend, 184PIN, 400Mb/s, 64Mx8, 1.160" Height, Samsung Chips

96DR-512M400NN-AP2

Apacer, 184PIN, 400Mb/s, 64Mx8, 1.160" Height, Samsung Chips

1 GB

96DR-1G400NN-TR1

Transcend, 184PIN, 400Mb/s, 64Mx8, 1.250" Height, Samsung Chips

96DR-1G400NN-AP

Apacer, 184PIN, 400Mb/s, 64Mx8, 1.160" Height, Samsung Chips

Q3/2013








Q4/2013

Q1/2014

Q2/2014

DDR DIMM Advance Feature

Available Phasing-out Planning

 ECC  Registered  Fully Buffered  New
 Low-Profile  Very Low-Profile  Wide Temperature

ECC

512 MB

96DR-512M266E-TR



Transcend, 184PIN, 266Mb/s, 32Mx8, 1.250" Height, Samsung Chips

ECC and Registered

512 MB

96DR-512M333ER-AP



Apacer 184PIN, 333Mb/s, 64Mx8, 1.200" Height, Samsung Chips

1 GB

96DR-1G333ER-AP1



Apacer 184PIN, 333Mb/s, 64Mx8, 1.200" Height, Samsung Chips

Q3/2013








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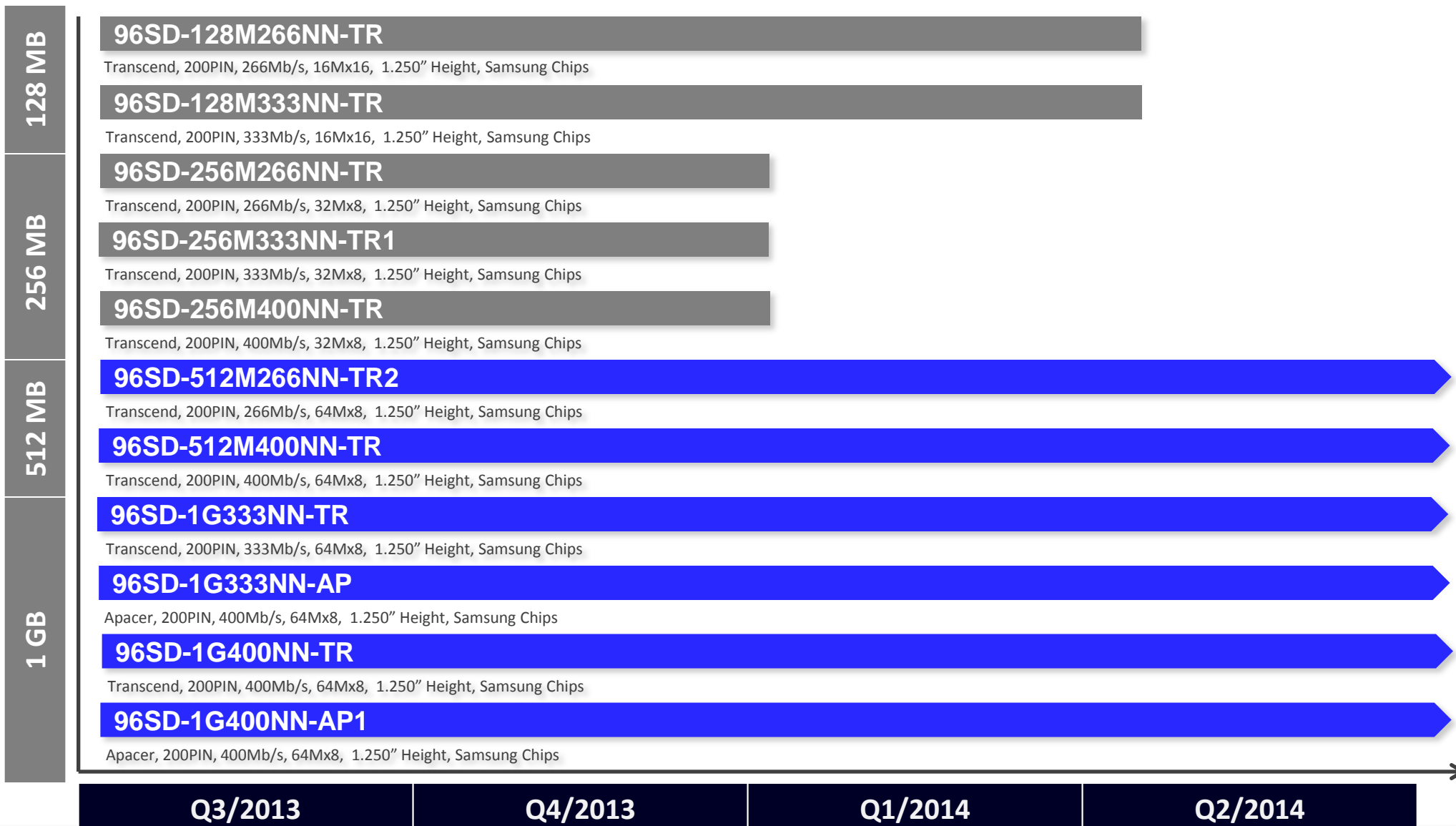
Q1/2014

Q2/2014

DDR SO-DIMM

Available Phasing-out Planning

 ECC
  Registered
  Fully Buffered
  New
  Low-Profile
  Very Low-Profile
  Wide Temperature



Q3/2013








Q4/2013

Q1/2014

Q2/2014

DDR2 DIMM

Available Phasing-out Planning

 ECC
  Registered
  Fully Buffered
  New
  Low-Profile
  Very Low-Profile
  Wide Temperature

512 MB

96D2-512M400NN-TR

Transcend, 240PIN, 400Mb/s, 64Mx8, 0.720" Height, Samsung Chips

96D2-512M667NN-TRL



Transcend, 240PIN, 667Mb/s, 64Mx8, 0.720" Height, Samsung Chips

96D2-1G533NN-TR1

Transcend, 240PIN, 533Mb/s, 64Mx8, 0.720" Height, Samsung Chips

96D2-1G667NN-TRL



Transcend, 240PIN, 667Mb/s, 64Mx8, 0.720" Height, Samsung Chips

96D2-1G800NN-TRL1



Transcend, 240PIN, 800Mb/s, 128Mx8, 0.720" Height, Samsung Chips

96D2-1G800NN-AP3

Apacer, 240PIN, 800Mb/s, 128Mx8, 1.181" Height, Samsung Chips

96D2-2G800NN-KI



Kingston, 240PIN, 800Mb/s, 128Mx8, 1.181" Height, Kingston Chips

96D2-2G667NN-TRL



Transcend, 240PIN, 667Mb/s, 128Mx8, 0.720" Height, Samsung Chips

96D2-2G667-AP

Apacer, 240PIN, 667Mb/s, 128Mx8, 1.181" Height, Samsung Chips

96D2-2G800NN-TRL1



Transcend, 240PIN, 800Mb/s, 128Mx8, 0.720" Height, Samsung Chips

96D2-2G800NN-AP

Apacer, 240PIN, 800Mb/s, 128Mx8, 1.181" Height, Samsung Chips

Q3/2013

Q4/2013

Q1/2014

Q2/2014








Advantech Confidential

Enabling an Intelligent Planet

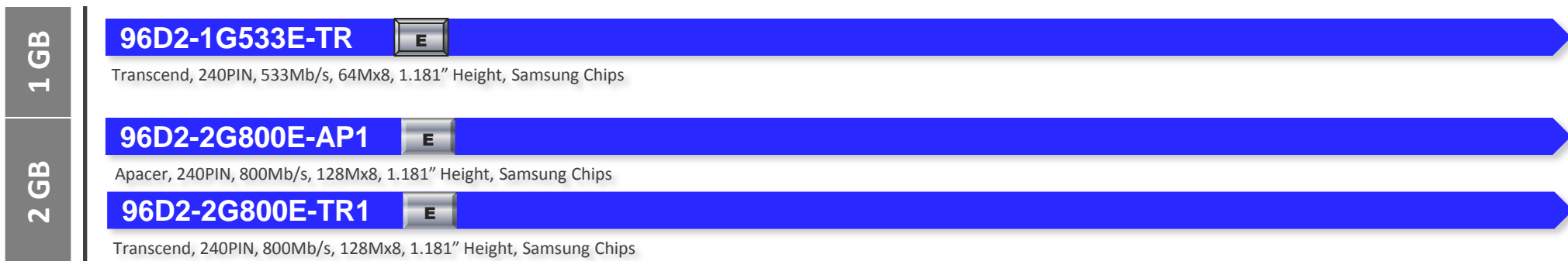
ADVANTECH

DDR2 DIMM Advance Feature

Available Phasing-out Planning

 ECC  Registered  Fully Buffered  New
 Low-Profile  Very Low-Profile  Wide Temperature

ECC



ECC and Registered



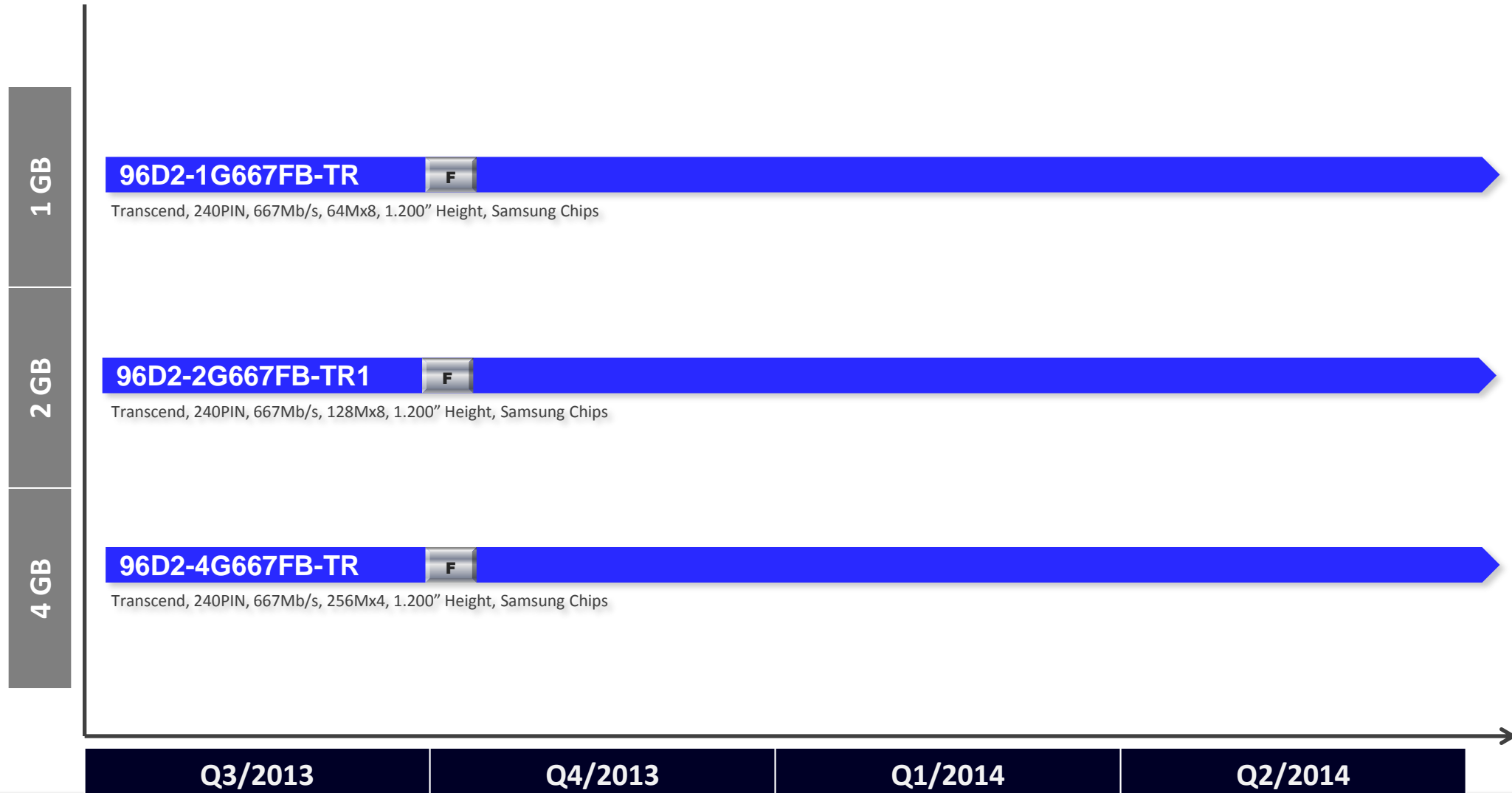
DDR2 DIMM Advance Feature

Available Phasing-out Planning

E ECC R Registered F Fully Buffered N New








L Low-Profile V Very Low-Profile W Wide Temperature

Fully Buffered



DDR2 SO-DIMM

Available Phasing-out Planning

 ECC
  Registered
  Fully Buffered
  New
  Low-Profile
  Very Low-Profile
  Wide Temperature

512 MB

96SD2-512M533NN-AP

Apacer, 200PIN, 533Mb/s, 64Mx8, 1.181" Height, Samsung Chips

96SD2-512M667NN-TR

Hot

Transcend, 200PIN, 667Mb/s, 64Mx8, 1.181" Height, Samsung Chips

96SD2-1G533NN-TR1

Hot

Transcend, 200PIN, 533Mb/s, 64Mx8, 1.181" Height, Samsung Chips

96SD2-1G667NN-TR

Hot

Transcend, 200PIN, 667Mb/s, 128Mx8, 1.181" Height, Samsung Chips

96SD2-1G800NN-TR1

Transcend, 200PIN, 800Mb/s, 128Mx8, 1.181" Height, Samsung Chips

96SD2-1G800NN-AP2

Apacer, 200PIN, 800Mb/s, 128Mx8, 1.181" Height, Hynix Chips

96SD2-1G800NN-AP3

Hot

Apacer, 200PIN, 800Mb/s, 128Mx8, 1.181" Height, Samsung Chips

96SD2-2G667NN-TR1

Hot

Transcend, 200PIN, 667Mb/s, 128Mx8, 1.181" Height, Samsung Chips

96SD2-2G800NN-TR1

Transcend, 200PIN, 800Mb/s, 128Mx8, 1.181" Height, Samsung Chips

96SD2-2G800NN-AP2

Hot

Apacer, 200PIN, 800Mb/s, 128Mx8, 1.181" Height, Samsung Chips

1 GB

2 GB

Q3/2013








Q4/2013

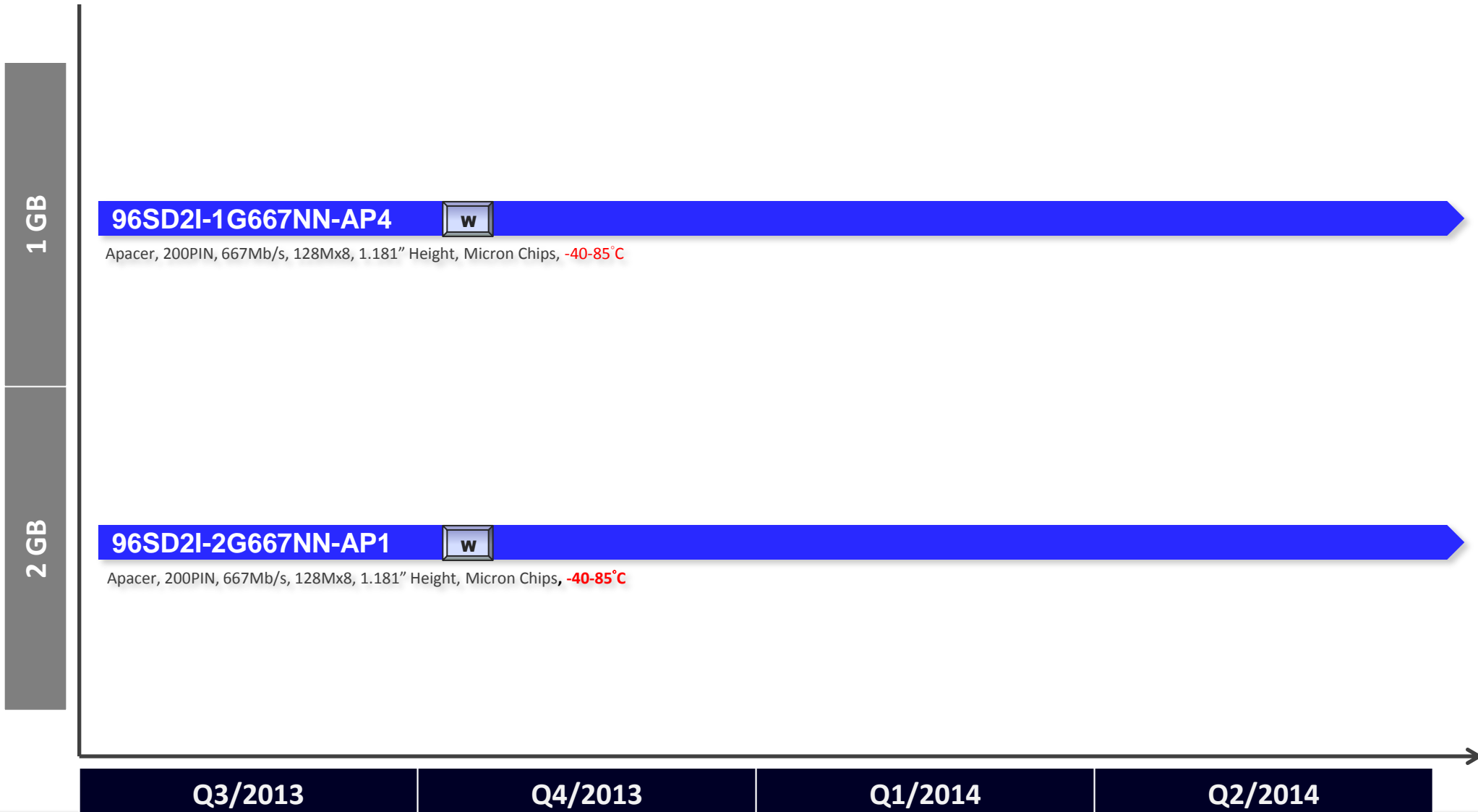
Q1/2014

Q2/2014

DDR2 SO-DIMM Wide Temp.








Available Phasing-out Planning

 ECC  Registered  Fully Buffered  New
 Low-Profile  Very Low-Profile  Wide Temperature



DDR3 DIMM

Available Phasing-out Planning

 ECC
  Registered
  Fully Buffered
  New
  Low-Profile
  Very Low-Profile
  Wide Temperature

1 GB

96D3-1G1333NN-TR1

Transcend, 240PIN, 1333Mb/s, 128Mx8, 1.181" Height, Samsung Chips

96D3-1G1333NN-AP1

Apacer, 240PIN, 1333Mb/s, 128Mx8, 1.181" Height, Hynix Chips

96D3-2G1066NN-TR

Transcend, 240PIN, 1066Mb/s, 128Mx8, 1.181" Height, Samsung Chips **EOL:7/9/13**

96D3-2G1333NN-TR2

Transcend, 240PIN, 1333Mb/s, 128Mx8, 1.181" Height, Samsung Chips

96D3-2G1333NN-AP4

Apacer, 240PIN, 1333Mb/s, 128Mx8, 1.181" Height, Hynix Chips

96D3-2G1333NN-TR1

Transcend, 240PIN, 1333Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96D3-2G1333NN-AP1

Apacer, 240PIN, 1333Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96D3-2G1600NN-APL

Apacer, 240PIN, 1600Mb/s, 256Mx8, 0.740" Height, Hynix Chips

96D3-2G1600NN-TR

Transcend, 240PIN, 1600Mb/s, 256Mx8, 1.181" Height, MICRON Chips

96D3-2G1600NN-TRL

Transcend, 240PIN, 1600Mb/s, 256Mx8, 0.74" Height, Samsung Chips

2 GB

Q3/2013








Q4/2013

Q1/2014

Q2/2014

DDR3 DIMM

Available Phasing-out Planning

 ECC
  Registered
  Fully Buffered
  New
  Low-Profile
  Very Low-Profile
  Wide Temperature

4 GB

96D3-4G1333NN-TR

Hot

Transcend, 240PIN, 1333Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96D3-4G1333NN-AP

Hot

Apacer, 240PIN, 1333Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96D3-4G1600NN-APL

V

Apacer, 240PIN, 1600Mb/s, 256Mx8, 0.740" Height, Hynix Chips

96D3-4G1600NN-TR

Transcend, 240PIN, 1600Mb/s, 256Mx8, 1.181" Height, Micron Chips **EOL:7/9/2013**

96D3-4G1600NN-TR

Transcend, 240PIN, 1600Mb/s, 256Mx8, 1.181" Height, Samsung Chips

8 GB

96D3-8G1333NN-APL

V

N

Apacer, 240PIN, 1333Mb/s, 512Mx8, 0.740" Height, Micron Chips

96D3-8G1600NN-APL

V

Apacer, 240PIN, 1600Mb/s, 512Mx8, 0.740" Height, Micron Chips

96D3-8G1600NN-TR

Transcend, 240PIN, 1600Mb/s, 512Mx8, 1.181" Height, Micron Chips

Q3/2013

Q4/2013



Q1/2014




Q2/2014

DDR3 DIMM Advance Feature

ECC

Available Phasing-out Planning

 ECC  Registered  Fully Buffered  New

 Low-Profile  Very Low-Profile  Wide Temperature



DDR3 DIMM Advance Feature

ECC and Registered

Available Phasing-out Planning

E

ECC

R

Registered

F

Fully Buffered

N

New

L

Low-Profile

V

Very Low-Profile

W

Wide Temperature

1 GB

2 GB

4 GB

96D3-1G1333ER-AP1

E

R

Apacer, 240PIN, 1333Mb/s, 128Mx8, 1.181" Height, Hynix Chips

96D3-2G1333ER-AP1

E

R

Apacer, 240PIN, 1333Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96D3-2G1333ER-AT

E

R

V

Apacer, 240PIN, 1333Mb/s, 128Mx8, 0.74" Height, Samsung Chips

96D3-4G1333ER-AP1

E

R

Apacer, 240PIN, 1333Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96D3-4G1333ER-AT

E

R

Apacer, 240PIN, 1333Mb/s, 256Mx4, 1.181" Height, Samsung Chips

96D3-4G1333ER-ATL

E

R

V

Apacer, 240PIN, 1333Mb/s, 256Mx8, 0.74" Height, Samsung Chips

96D3-4G1600ER-TRL1

E

R

V

Transcend, 240PIN, 1600Mb/s, 256Mx8, 0.74" Height, Samsung Chips

96D3-4G1600ER-AT

E

R

Apacer, 240PIN, 1600Mb/s, 256Mx8, 1.181" Height, Samsung Chips

Q3/2013

Q4/2013

Q1/2014

Q2/2014

DDR3 DIMM Advance Feature

ECC and Registered

Available

Phasing-out

Planning

E

ECC

R

Registered

F

Fully Buffered

N

New

L

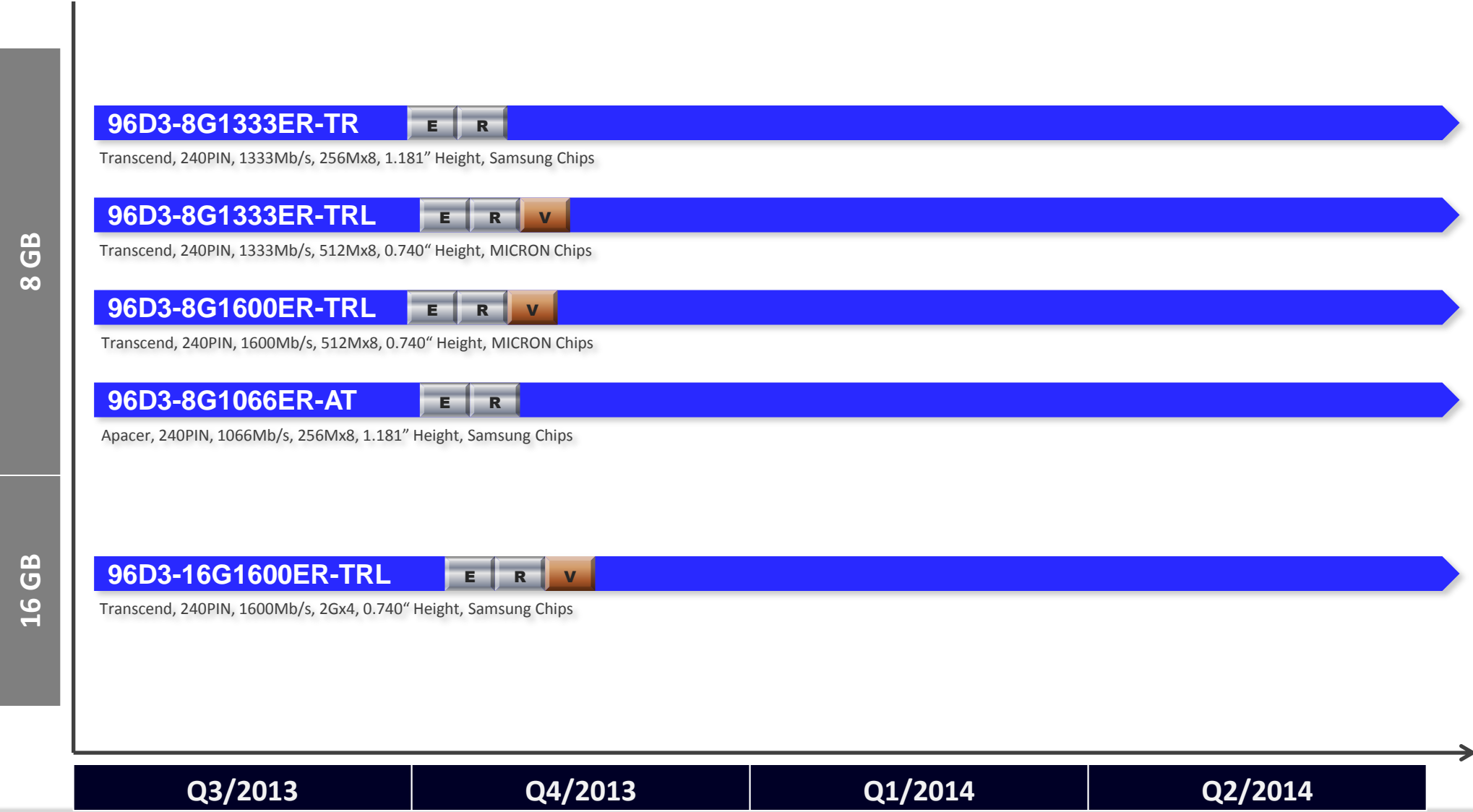
Low-Profile

V

Very Low-Profile








W

Wide Temperature



DDR3 SO-DIMM

Available Phasing-out Planning

 ECC  Registered  Fully Buffered  New
 Low-Profile  Very Low-Profile  Wide Temperature

1 GB

96SD3-1G1333NN-TR1

Transcend, 204PIN, 1333Mb/s, 128Mx8, 1.181" Height, Samsung Chips

96SD3-1G1333NN-AP1

Apacer, 204PIN, 1333Mb/s, 128Mx8, 1.181" Height, Hynix Chips

2 GB

96SD3-2G1333NN-TR2

Hot

Transcend, 204PIN, 1333Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96SD3-2G1333NN-AP2

Apacer, 204PIN, 1333Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96SD3-2G1600NN-AP

Apacer, 204PIN, 1600Mb/s, 256Mx8, 1.181" Height, Hynix Chips

Q3/2013








Q4/2013

Q1/2014

Q2/2014

DDR3 SO-DIMM

Available Phasing-out Planning

 ECC
  Registered
  Fully Buffered
  New
  Low-Profile
  Very Low-Profile
  Wide Temperature

4 GB

96SD3-4G1066NN-AP

Apacer, 204PIN, 1066Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96SD3-4G1333NN-TR1

Transcend, 204PIN, 1333Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96SD3-4G1333NN-AP1

Apacer, 204PIN, 1333Mb/s, 256Mx8, 1.181" Height, Hynix Chips

96SD3-4G1600NN-TR

Transcend, 204PIN, 1600Mb/s, 256Mx8, 1.181" Height, Micron Chips

96SD3-4G1600NN-AP

Apacer, 204PIN, 1600Mb/s, 256Mx8, 1.181" Height, Hynix Chips

8 GB

96SD3-8G1333NN-TR

Transcend, 204PIN, 1333Mb/s, 512Mx8, 1.181" Height, Micron Chips

96SD3-8G1600NN-TR

Transcend, 204PIN, 1600Mb/s, 512Mx8, 1.181" Height, Micron Chips

96SD3-8G1600NN-AP

Apacer, 204PIN, 1600Mb/s, 512Mx8, 1.181" Height, HYNIX Chips

96SD3-8G1600NN-AT

Apacer, 204PIN, 1600Mb/s, 512Mx8, 1.181" Height, Samsung Chips

Q3/2013

Q4/2013

Q1/2014

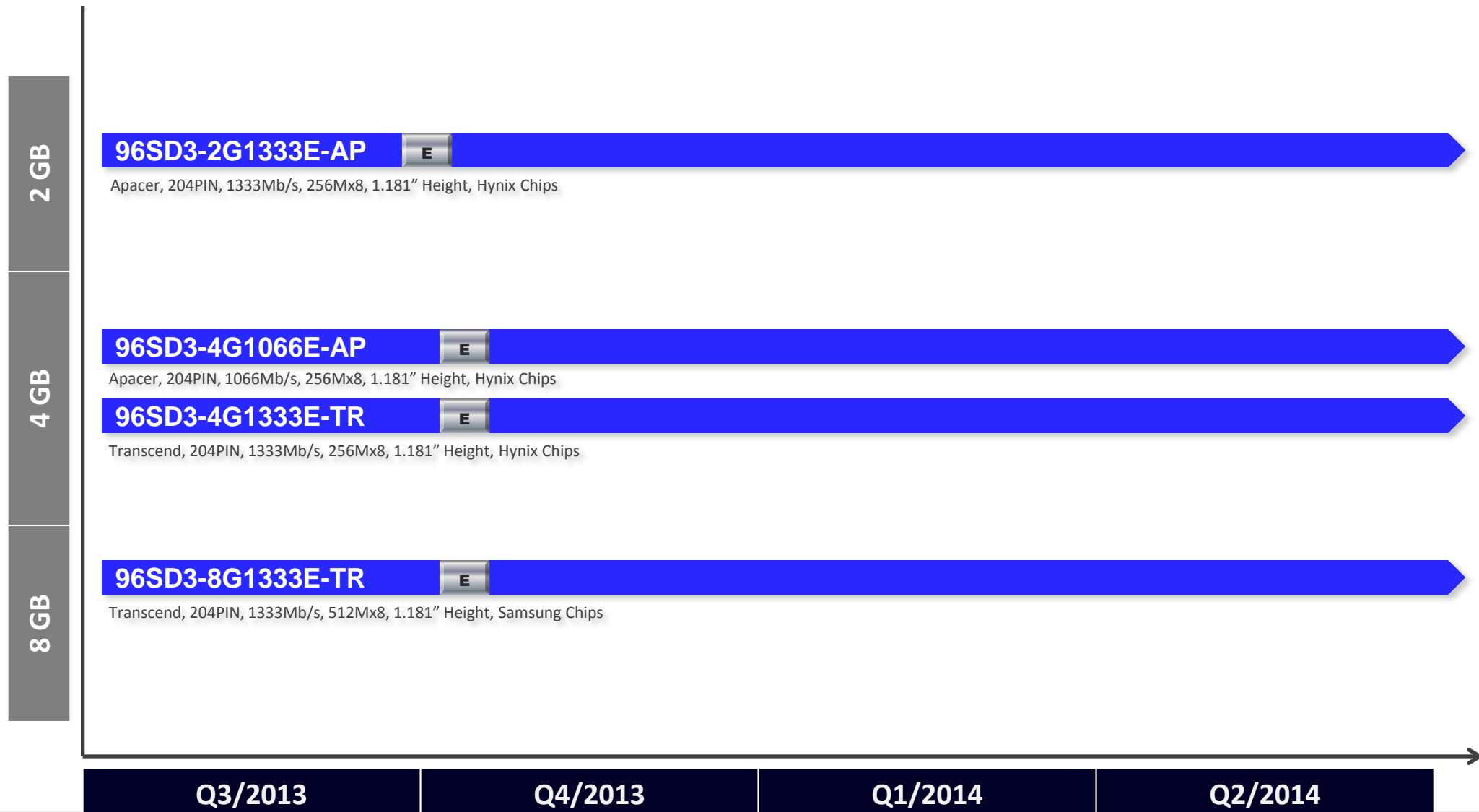
Q2/2014

DDR3 SO-DIMM

Advance Feature - ECC

Available Phasing-out Planning








E ECC **R** Registered **F** Fully Buffered **N** New
L Low-Profile **V** Very Low-Profile **W** Wide Temperature



DDR3 SO-DIMM

Low Voltage.

Available Phasing-out Planning

 ECC  Registered  Fully Buffered  New
 Low-Profile  Very Low-Profile  Wide Temperature

2 GB

96SD3L-2G1600NN-TR

Transcend, 204PIN, 1600Mb/s, 256Mx8, 1.35V, 1.181" Height, Samsung Chips EOL:7/9/2013

4 GB

96SD3L-4G1333NN-AP

Apacer, 204PIN, 1333Mb/s, 512Mx8, 1.35V, 1.181" Height, MICRO Chips

96SD3L-4G1600NN-TR

Transcend, 204PIN, 1600Mb/s, 512Mx8, 1.35V, 1.181" Height, SAMSUNG Chips EOL:7/9/2013

8 GB

96SD3L-8G1333NN-AP

Apacer, 204PIN, 1333Mb/s, 512Mx8, 1.35V, 1.181" Height, MICRO Chips

96SD3L-8G1600NN-TR

Transcend, 204PIN, 1600Mb/s, 512Mx8, 1.35V, 1.181" Height, SAMSUNG Chips EOL:7/9/2013

Q3/2013

Q4/2013

Q1/2014

Q2/2014

Memory EOL Procedure

- For support and product management optimization, PAPS will follow the Memory phase-out procedure as below.



Thank you

