:B



315b: x32 Mobile LPDDR5 SDRAM **Features**

Mobile LPDDR5 SDRAM

MT62F512M32D2, MT62F1G32D4, MT62F2G32D8

eatures	Options	Marking
 Architecture 12.8 GB/s maximum bandwidth per channel Frequency range: 800–5 MHz (data rate range per pin: 6400–40 Mb/s with WCK:CK = 4:1) Selectable CKR (WCK:CK = 2:1 or 4:1) LPDDR5 data interface Single x16 channel/die Double-data-rate command/address entry Differential command clocks (CK_t/CK_c) for high speed operation 	 V_{DD1}/V_{DD2H}/V_{DD2L}/V_{DDQ} (ODT on)/ (ODT off): 1.8V/1.05V/0.9V/0.5V/0.3V Array configuration 512 Meg x 32 (2 channels x16 I/O) 1 Gig x 32 (2 channels x16 I/O) 2 Gig x 32 (2 channels x16 I/O) Device configuration 512M16 × 2 die in package 512M16 × 4 die in package 1024M8 × 8 die in package 	F 512M32 1G32 2G32 D2 D4 D8
high-speed operation Differential data clocks (WCK_t/WCK_c) Optional differential read strobe (RDQS_t/RDQS_c)	 FBGA "green" package 315-ball TFBGA (12.4mm × 15mm), seated height 1.1mm (MAX) Speed grade, cycle time (^tWCK) 	DR
 16<i>n</i>-bit or 32<i>n</i>-bit prefetch architecture 4KB page size with 8-bank (8B mode), 2KB page size with bank group (BG mode), or 16-bank (16B 	6400 Mb/sOperating temperature:	-031
da) amanatian	- -25 °C to $+85$ °C	WT

Revision

- mode) operation
- Command-selectable burst lengths (BL = 16 or 32) in bank group or 16-bank modes
- Background ZQ calibration/command-based ZQ calibration
- Optional link protection (link ECC)
- Partial-array self refresh (PASR) and partial-array auto refresh (PAAR) with segment mask

• Ultra-low-voltage core and I/O power supplies

- V_{DD1} = 1.70–1.95V; 1.8V NOM
- V_{DD2H} = 1.01–1.12V; 1.05V NOM
- $V_{\rm DD2L} = V_{\rm DD2H} \text{ or } 0.87 0.97V; 0.9V \text{ NOM} \\ V_{\rm DDQ} = 0.5V \text{ NOM or } 0.3V \text{ NOM (ODT off)}$

I/O characteristics

- Interface-LVSTL 0.5/0.3
- I/O type: Low-swing single-ended, V_{SS} termina-
- V_{OH}-compensated output drive
- Programmable V_{SS} on-die termination (ODT)
- Non target ODT support
- DVFSQ support

Low power features

- DVFSC: Dynamic voltage frequency scaling core
- Single-ended CK, single-ended WCK, and singleended RDQS
- Data copy
- Write X



315b: x32 Mobile LPDDR5 SDRAM Features

Part Number Ordering Information

Figure 1: Part Number Chart

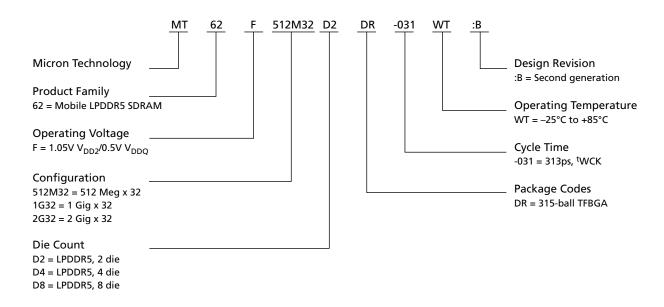


Table 1: Part Number List

Part Number	Total Density	Data Rate per Pin
MT62F512M32D2DR-031 WT:B	2GB (16Gb)	6400 Mb/s
MT62F1G32D4DR-031 WT:B	4GB (32Gb)	6400 Mb/s
MT62F2G32D8DR-031 WT:B	8GB (64Gb)	6400 Mb/s

FBGA Part Marking Decoder

Due to space limitations, FBGA-packaged components have an abbreviated part marking that is different from the part number. Micron's FBGA part marking decoder is available at www.micron.com/decoder.

LPDDR5 Data Sheet List

This data sheet only describes the product specifications that are unique to the Micron devices listed in Table 1.

For general LPDDR5 specifications, please refer to the data sheets below.

These data sheets are available at www. micron.com

- General LPDDR5 Specifications 1: Mode Registers
- General LPDDR5 Specifications 2: AC/DC and Interface Specifications
- General LPDDR5 Specifications 3: Features and Functionalities



315b: x32 Mobile LPDDR5 SDRAM Important Notes and Warnings

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315b: x32 Mobile LPDDR5 SDRAM General Notes

General Notes

Throughout the data sheet, figures and text refer to DQs as DQ. DQ should be interpreted as any or all DQs collectively, unless specifically stated otherwise.

RDQS, CK, and WCK should be interpreted as RDQS_t, RDQS_c, CK_t, CK_c, and WCK_t, WCK_c respectively unless specifically stated otherwise. CA includes all CA pins used for a given density.

In timing diagrams, CMD is used as an indicator only. Actual signals occur on CA[6:0].

 V_{REF} indicates $V_{REF(CA)}$ and $V_{REF(DO)}$.

Complete functionality is described throughout the entire document. Any page or diagram may have been simplified to convey a topic and may not be inclusive of all requirements.

Any specific requirement takes precedence over a general statement.

Any functionality not specifically stated herein is considered undefined, illegal, is not supported, and will result in unknown operation.



315b: x32 Mobile LPDDR5 SDRAM Device Configuration

Device Configuration

Table 2: Die Organization in the Package

Die Organization	512M32 (16 Gb/package)	1G32 (32 Gb/package)	2G32 (64 Gb/package)
Channel A, rank 0	x16 mode × 1 die	x16 mode × 1 die	x8 mode × 2 die
Channel B, rank 0	x16 mode × 1 die	x16 mode × 1 die	x8 mode × 2 die
Channel A, rank 1	-	x16 mode × 1 die	x8 mode × 2 die
Channel B, rank 1	-	x16 mode × 1 die	x8 mode × 2 die

Note: 1. Refer to the Package Block Diagram section in this data sheet.

Table 3: Die Addressing

Description		132 (16 Gb/pack 32 (32Gb/packa		2 G :	32 (64 Gb/packa	ge)
Density per die		8Gb		8Gb		
Bits		8,589,934,592			8,589,934,592	
Bank mode	BG mode	16B mode	8B mode	BG mode	16B mode	8B mode
Configuration	32Mb × 16 DQ × 4 Banks × 4BG	32Mb × 16 DQ × 16 Banks	64Mb × 16 DQ × 8 Banks	64Mb × 8DQ × 4 Banks × 4BG	64Mb × 8DQ × 16 Banks	128Mb × 8DQ × 8 Banks
Number of banks	4	16	8	4	16	8
Number of bank groups	4	1	1	4	1	1
Array prefetch bits	256	256	512	128	128	256
Rows per bank		32,768		65,536		
Columns		64		64		
Page size (bytes)	2048	2048	4096	1024	1024	2048
Native burst length	16	16	32	16	16	32
Number of I/Os		16		8		
Bank address	BA[1:0]	BA[3:0]	BA[2:0]	BA[1:0]	BA[3:0]	BA[2:0]
Bank group ad- dress	BG[1:0]	-	-	BG[1:0]	_	-
Row address		R[14:0]		R[15:0]		
Column address	C[5:0]				C[5:0]	
Burst address	B[3:0]	B[3:0]	B[4:0]	B[3:0]	B[3:0]	B[4:0]
Burst starting ad- dress boundary		128 bit			128 bit	

Note: 1. Refer to the SDRAM Addressing section in General LPDDR5 Specification 3.

Refresh Requirement Parameters



315b: x32 Mobile LPDDR5 SDRAM Refresh Requirement Parameters

Table 4: Refresh Requirement Parameters

		Die		
Parameter	Symbol	BG and 16B Mode	8B Mode	Unit
REFRESH cycle time (all banks)	^t RFCab	210	210	ns
REFRESH cycle time (per bank)	^t RFCpb	120	120	ns
Per bank refresh to per bank refresh time (different bank)	^t PBR2PBR	90	90	ns
Per bank refresh to ACTIVATE command time (different bank)	^t PBR2ACT	7.5	10	ns

Note: 1. This table only describes refresh parameters that are density dependent. Refer to Refresh Requirement section in General LPDDR5 Specifications 3 for all refresh parameters.

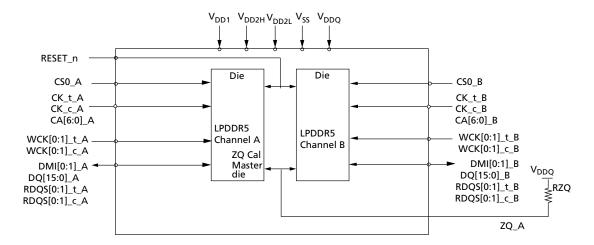


315b: x32 Mobile LPDDR5 SDRAM Package Block Diagrams

Package Block Diagrams

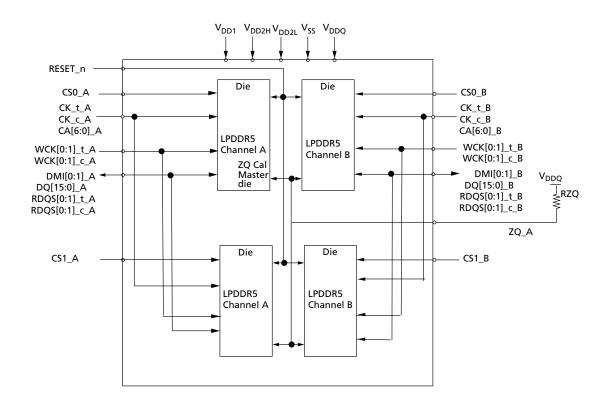
Dual-Die, Dual-Channel

Figure 2: Dual-Die, Dual-Channel Package Block Diagram



Quad-Die, Dual-Channel

Figure 3: Quad-Die, Dual-Channel Package Block Diagram

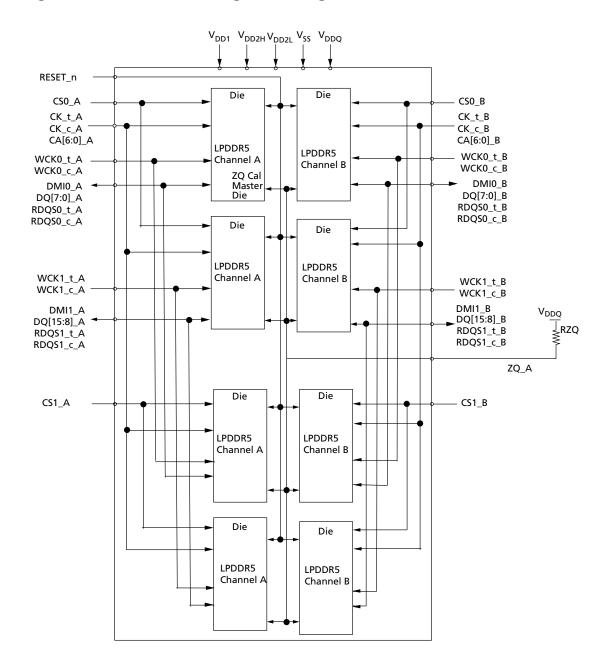




315b: x32 Mobile LPDDR5 SDRAM Package Block Diagrams

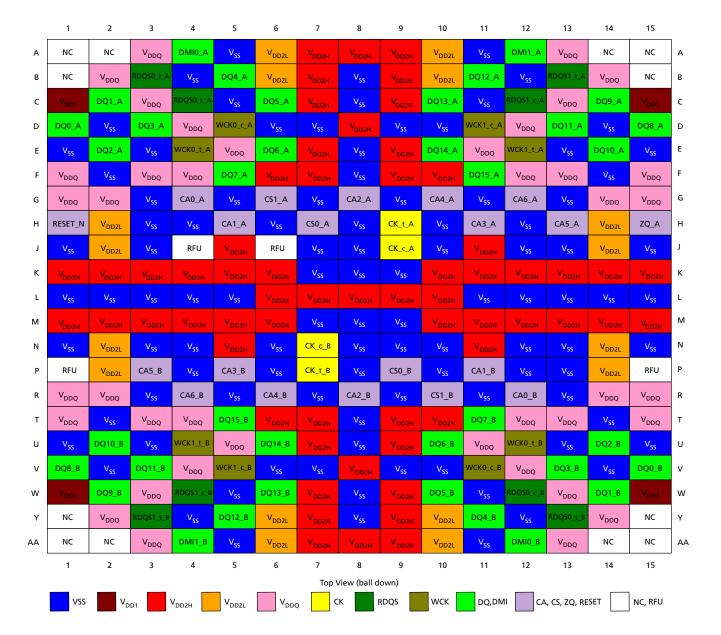
Eight-Die, Dual-Channel

Figure 4: Eight-Die, Dual-Channel Package Block Diagram



Ball Assignments and Descriptions

Figure 5: 315-Ball Dual-Channel Discrete FBGA





Ball Assignments and Descriptions

315b: x32 Mobile LPDDR5 SDRAM



315b: x32 Mobile LPDDR5 SDRAM Ball Assignments and Descriptions

Table 5: Ball/Pad Descriptions

Symbol	Туре	Description
CK_t_[A:B] CK_c_[A:B]	Input	Clock: CK_t and CK_c are differential clock inputs. All double data rate (DDR) command/address inputs are sampled on both crossing points of CK_t and CK_c. The first crossing point is the rising (falling) edge of CK_t (CK_c) and second crossing point is falling (rising) edge of CK_t (CK_c). Single data rate (SDR) inputs, CS is sampled on the crossing point that is the rising (falling) edge of CK_t (CK_c).
CS0_[A:B], CS1_[A:B]	Input	Chip select: CS is part of the command code, and is sampled on the rising (falling) edge of CK_t (CK_c) unless the device is in power-down or deep sleep mode where it becomes an asynchronous signal. Each rank (0, 1) has its own CS signals. CS1_[A:B] become NC pins in a single-rank package.
CA[6:0]_[A:B]	Input	Command/address inputs: Provide the command and address inputs according to the command truth table.
WCK[1:0]_t_[A:B] WCK[1:0]_c_[A:B]	Input	Data clock: WCK_t and WCK_c are differential clock inputs used for write data capture and read data output.
DQ[15:0]_[A:B]	I/O	Data input/output: Bidirectional data bus.
RDQS[1:0]_t_[A:B] RDQS[1:0]_c_[A:B]	I/O Output	Read data strobe: RDQS_t and RDQS_c are differential output clock signals used to strobe data during a READ operation. RDQS_t is also used as a parity pin during write link protection enabled. Each byte of data has RDQS_t and RDQS_c signals.
DMI[1:0]_[A:B]	I/O	Data mask inversion: DMI serves multiple functions such as data mask (DM), data bus inversion (DBI), and parity at READ with ECC operation by setting the mode register. DMI is a bidirectional signal and each byte of data has a DMI signal.
ZQ_A	Reference	ZQ calibration reference: Used to calibrate the output drive strength and the termination resistance. The ZQ pin should be connected to V_{DDQ} through a 240 Ω ±1% resistor.
$V_{\mathrm{DDQ}}, V_{\mathrm{DD1}}, V_{\mathrm{DD2H}}, \ V_{\mathrm{DD2L}}$	Supply	Power supplies: Isolated on the die for improved noise immunity.
V _{SS}	Supply	Ground reference: Power supply ground reference.
RESET_n	Input	Reset: When asserted LOW, the RESET pin resets the die. Reset is an asynchronous signal.
NC	_	No connect: Not internally connected.

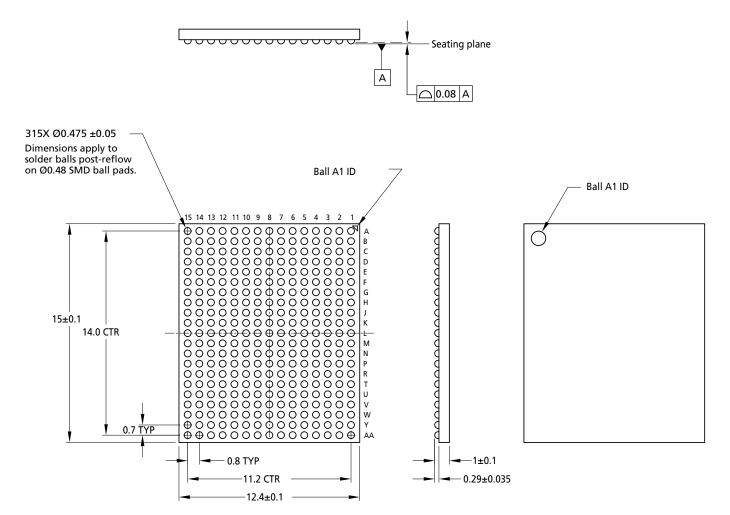


315b: x32 Mobile LPDDR5 SDRAM **Package Dimensions**

Package Dimensions

315-Ball Package (Package Code: DR)

Figure 6: 315-Ball TFBGA - 12.4mm × 15mm (Package Code: DR)



- Notes: 1. All dimensions are in millimeters.
 - 2. Solder ball composition: SAC302 with NiAu pads (Sn-3Ag-0.2Cu).



315b: x32 Mobile LPDDR5 SDRAM Product-Specific Mode Register Definition

Product-Specific Mode Register Definition

Table 6: Mode Register Contents

Mode Register	OP7	OP6	OP5	OP4	OP3	OP2	OP1	OP0
MR0			Unified NT ODT behavior mode	DMI out- put be- havior mode	Opti- mized re- fresh mode	Enhanced WCK al- ways-on mode	Latency mode	NT ODT timing mode
		OP[0]	= 1b: Devic	e supports	different NT	ODT latency for DQ and	RDQS	
			OP[1] =1	b: Device su	pports byte	latency for 512M32 and 1 mode latency for 2G32		
						ced WCK always on mode	!	
						timized refresh mode		
-						or mode 1 and 2 and mod		
NADE	OP[5] = 1b: The NT ODT behavior follows the unified NT ODT behavior							
MR5					anufacture 11 1111b : M			
MR6					Revision II			
IVIKO					0000 0110			
MR8	I/O v	vidth			Density			
				OPI	[5:2] = 0100k			
			0		o: x16 for 51 6] =01b: x8 f	2M32 and 1G32 for 2G32		
MR13						VRO		
		11			-	ration (default) 7 and V _{REF(DQ)} value on DO	Q6	
MR19			WCK2DQ OSC FM					
			0	P[5] = 1b: V		C FM supported		
MR21	WXS				ODTD- CSFS	WXFS	RDCFS	WDCFS
	OP[0] = 1b: WRITE DATA COPY function supported							
	OP[1] = 1b: READ DATA COPY function supported							
	OP[2] = 1b: WRITE X function supported OP[3] = 1b: Device ODTD-CS is supported							
						-Cs is supported i be selected with 0 and 1		
MR22	RF	:CC		ECC	written can	i be selected with 0 and 1		
11111/22	NE				 /rite link FC0	C disabled (default)		
	OP[5:4] = 00b: Write link ECC disabled (default) 01b: Write link ECC enabled (See Note 3)							
	OP[7:6] = 00b: Read link ECC disabled (default) 01b: Read link ECC enabled (See Note 3)							
MR24	DFES							
		•		OP[7] =	: 1b: DFE is s	supported		



315b: x32 Mobile LPDDR5 SDRAM Product-Specific Mode Register Definition

Table 6: Mode Register Contents (Continued)

Mode Register	OP7	OP6	OP5	OP4	OP3	OP2	OP1	OP0
MR26		RDQSTFS						
	OP[6] = 1b: Read/write-based RDQS_t TRAINING function supported							
MR27	RFIV						RFM	
				OP[0] =	0b: RFM no	t required		
MR43	SBEC SBEC							
		Rule						
		OP[6] = 1b: 9	Simultaneo	us SBE on e	ach DQ byte	and DMI are independe	ntly counted	l l

- 1. The contents of mode registers described here reflect information specific to each die in these packages.
- 2. Refer to General LPDDR5 Specification 1 for mode registers not described here.
- 3. Write link ECC and read link ECC are supported.



I_{DD} Parameters

Refer to $I_{\rm DD}$ Specification Parameters and Test Conditions section in General LPDDR5 Specifications 2 for detailed conditions.

Table 7: I_{DD} Parameters - Single Die

 $V_{DD1} = 1.70 - 1.95 V; \ V_{DD2H} = 1.01 - 1.12 V; \ V_{DD2L} = 0.87 - 0.97 V; \ V_{DDQ} = 0.47 - 0.57 V; \ T_{C} = -25 ^{\circ} C \ to \ +85 ^{\circ} C \ to \$

Notes 1 and 2 apply to entire table.

Notes I and 2 apply		Speed Grade		
Symbol	Supply	x8 Mode, 6400 Mb/s	Unit	Note
I _{DD01}	V _{DD1}	TBD	mA	
I _{DD02H}	V_{DD2H}	TBD		
I _{DD02L}	V_{DD2L}	TBD		
I _{DD0Q}	V_{DDQ}	TBD		
I _{DD2P1}	V_{DD1}	TBD	mA	
DD2P2H	V_{DD2H}	TBD		
DD2P2L	V_{DD2L}	TBD		
DD2PQ	V_{DDQ}	TBD		
DD2PS1	V_{DD1}	TBD	mA	
DD2PS2H	V_{DD2H}	TBD		
DD2PS2L	V_{DD2L}	TBD		
DD2PSQ	V_{DDQ}	TBD		
DD2N1	V _{DD1}	TBD	mA	
DD2N2H	V_{DD2H}	TBD		
DD2N2L	V_{DD2L}	TBD		
I _{DD2NQ}	V_{DDQ}	TBD		
DD2NS1	V _{DD1}	TBD	mA	
DD2NS2H	V_{DD2H}	TBD		
DD2NS2L	V_{DD2L}	TBD		
DD2NSQ	V_{DDQ}	TBD		
DD3P1	V_{DD1}	TBD	mA	
DD3P2H	V_{DD2H}	TBD		
DD3P2L	V_{DD2L}	TBD		
DD3PQ	V_{DDQ}	TBD		
DD3PS1	V_{DD1}	TBD	mA	
DD3PS2H	V_{DD2H}	TBD		
DD3PS2L	V_{DD2L}	TBD		
DD3PSQ	V_{DDQ}	TBD		
DD3N1	V_{DD1}	TBD	mA	
DD3N2H	V_{DD2H}	TBD		
DD3N2L	V_{DD2L}	TBD		
I _{DD3NQ}	V_{DDQ}	TBD		



Table 7: I_{DD} Parameters – Single Die (Continued)

 $V_{DD1} = 1.70 - 1.95V$; $V_{DD2H} = 1.01 - 1.12V$; $V_{DD2L} = 0.87 - 0.97V$; $V_{DDQ} = 0.47 - 0.57V$; $T_{C} = -25^{\circ}C$ to $+85^{\circ}C$

Notes 1 and 2 apply to entire table.

		Speed Grade			
Symbol	Supply	x8 Mode, 6400 Mb/s	Unit	Note	
I _{DD3NS1}	V _{DD1}	TBD	mA		
I _{DD3NS2H}	V_{DD2H}	TBD			
I _{DD3NS2L}	V _{DD2L}	TBD			
I _{DD3NSQ}	V_{DDQ}	TBD			
I _{DD4R1}	V _{DD1}	TBD	mA	3, 4	
I _{DD4R2H}	V_{DD2H}	TBD			
I _{DD4R2L}	V _{DD2L}	TBD			
I _{DD4RQ}	V_{DDQ}	TBD			
I _{DD4W1}	V _{DD1}	TBD	mA	3	
I _{DD4W2H}	V_{DD2H}	TBD			
I _{DD4W2L}	V_{DD2L}	TBD			
I _{DD4WQ}	V_{DDQ}	TBD			
I _{DD51}	V _{DD1}	TBD	mA		
I _{DD52H}	V_{DD2H}	TBD			
I _{DD52L}	V _{DD2L}	TBD			
I _{DD5Q}	V_{DDQ}	TBD			
I _{DD5AB1}	V_{DD1}	TBD	mA		
I _{DD5AB2H}	V_{DD2H}	TBD			
I _{DD5AB2L}	V_{DD2L}	TBD			
I _{DD5ABQ}	V_{DDQ}	TBD			
I _{DD5PB1}	V_{DD1}	TBD	mA		
I _{DD5PB2H}	V_{DD2H}	TBD			
I _{DD5PB2L}	V_{DD2L}	TBD			
I _{DD5PBQ}	V_{DDQ}	TBD			

- 1. Published I_{DD} values except I_{DD4RQ} are the maximum I_{DD} values considering the worst-case conditions of process, temperature, and voltage.
- 2. BG mode. DVFSC and DVFSQ disabled.
- 3. BL = 16, DBI disabled.
- 4. I_{DD4RO} value is reference only. Typical value. Output load = 5pF, R_{ON} = 40 ohm, T_{C} = 25°C.



Table 8: I_{DD} Parameters – Single Die

 $V_{DD1} = 1.70 - 1.95V$; $V_{DD2H} = 1.01 - 1.12V$; $V_{DD2L} = 0.87 - 0.97V$; $V_{DDQ} = 0.47 - 0.57V$; $T_{C} = -25^{\circ}C$ to $+85^{\circ}C$

Notes 1 and 2 apply to entire table.

		Speed Grade		
Symbol	Supply	x16 Mode, 6400 Mb/s	Unit	Note
DD01	V _{DD1}	TBD	mA	
DD02H	V_{DD2H}	TBD		
DD02L	V_{DD2L}	TBD		
DD0Q	V_{DDQ}	TBD		
DD2P1	V _{DD1}	TBD	mA	
DD2P2H	V_{DD2H}	TBD		
DD2P2L	V _{DD2L}	TBD		
DD2PQ	V_{DDQ}	TBD		
DD2PS1	V _{DD1}	TBD	mA	
DD2PS2H	V_{DD2H}	TBD		
DD2PS2L	V_{DD2L}	TBD		
DD2PSQ	V_{DDQ}	TBD		
DD2N1	V _{DD1}	TBD	mA	
DD2N2H	V_{DD2H}	TBD		
DD2N2L	V_{DD2L}	TBD		
DD2NQ	V_{DDQ}	TBD		
DD2NS1	V _{DD1}	TBD	mA	
DD2NS2H	V_{DD2H}	TBD		
DD2NS2L	V _{DD2L}	TBD		
DD2NSQ	V_{DDQ}	TBD		
DD3P1	V _{DD1}	TBD	mA	
DD3P2H	V_{DD2H}	TBD		
DD3P2L	V_{DD2L}	TBD		
DD3PQ	V_{DDQ}	TBD		
DD3PS1	V _{DD1}	TBD	mA	
DD3PS2H	V_{DD2H}	TBD		
DD3PS2L	V_{DD2L}	TBD		
DD3PSQ	V_{DDQ}	TBD		
DD3N1	V_{DD1}	TBD	mA	
DD3N2H	V_{DD2H}	TBD		
DD3N2L	V_{DD2L}	TBD		
DD3NQ	V_{DDQ}	TBD		



Table 8: I_{DD} Parameters – Single Die (Continued)

 $V_{DD1} = 1.70 - 1.95V$; $V_{DD2H} = 1.01 - 1.12V$; $V_{DD2L} = 0.87 - 0.97V$; $V_{DDQ} = 0.47 - 0.57V$; $T_{C} = -25^{\circ}C$ to $+85^{\circ}C$

Notes 1 and 2 apply to entire table.

		Speed Grade			
Symbol	Supply	x16 Mode, 6400 Mb/s	Unit	Note	
I _{DD3NS1}	V _{DD1}	TBD	mA		
I _{DD3NS2H}	V_{DD2H}	TBD			
I _{DD3NS2L}	V _{DD2L}	TBD			
I _{DD3NSQ}	V_{DDQ}	TBD			
I _{DD4R1}	V _{DD1}	TBD	mA	3, 4	
I _{DD4R2H}	V_{DD2H}	TBD			
I _{DD4R2L}	V _{DD2L}	TBD			
I _{DD4RQ}	V_{DDQ}	TBD			
I _{DD4W1}	V _{DD1}	TBD	mA	3	
I _{DD4W2H}	V_{DD2H}	TBD			
I _{DD4W2L}	V _{DD2L}	TBD			
I _{DD4WQ}	V_{DDQ}	TBD			
I _{DD51}	V _{DD1}	TBD	mA		
I _{DD52H}	V_{DD2H}	TBD			
I _{DD52L}	V _{DD2L}	TBD			
I _{DD5Q}	V_{DDQ}	TBD			
I _{DD5AB1}	V_{DD1}	TBD	mA		
I _{DD5AB2H}	V_{DD2H}	TBD			
I _{DD5AB2L}	V_{DD2L}	TBD			
I _{DD5ABQ}	V_{DDQ}	TBD			
I _{DD5PB1}	V_{DD1}	TBD	mA		
I _{DD5PB2H}	V_{DD2H}	TBD			
I _{DD5PB2L}	V_{DD2L}	TBD			
I _{DD5PBQ}	V_{DDQ}	TBD			

- 1. Published I_{DD} values except I_{DD4RQ} are the maximum I_{DD} values considering the worst-case conditions of process, temperature, and voltage.
- 2. BG mode. DVFSC and DVFSQ disabled.
- 3. BL = 16, DBI disabled.
- 4. I_{DD4RO} value is reference only. Typical value. Output load = 5pF, R_{ON} = 40 ohm, T_{C} = 25°C.



Table 9: Full-Array Power-Down Self Refresh Current/Deep-Sleep Mode Current - Single Die

 $V_{DD1} = 1.70 - 1.95V$; $V_{DD2H} = 1.01 - 1.12V$; $V_{DD2L} = 0.87 - 0.97V$; $V_{DDO} = 0.47 - 0.57V$; $T_{C} = -25^{\circ}C$ to $+85^{\circ}C$

Temperature	Symbol	Supply	Value	Unit
25°C	I _{DD61}	V _{DD1}	TBD	mA
	I _{DD62H}	V _{DD2H}	TBD	
	I _{DD62L}	V _{DD2L}	TBD	
	I _{DD6Q}	V_{DDQ}	TBD	
	I _{DD6D1}	V _{DD1}	TBD	
	I _{DD6D2H}	V _{DD2H}	TBD	
	I _{DD6D2L}	V _{DD2L}	TBD	
	I _{DD6DQ}	V _{DDQ}	TBD	
85°C	I _{DD61}	V _{DD1}	TBD	
	I _{DD62H}	V _{DD2H}	TBD	
	I _{DD62L}	V _{DD2L}	TBD	
	I _{DD6Q}	V_{DDQ}	TBD	
	I _{DD6D1}	V _{DD1}	TBD	
	I _{DD6D2H}	V _{DD2H}	TBD	
	I _{DD6D2L}	V _{DD2L}	TBD	
	I _{DD6DQ}	V_{DDQ}	TBD	

- 1. $I_{DD6}25^{\circ}\text{C}$ is the typical value in the distribution with nominal V_{DD} and a reference-only value. I_{DD6} 85°C is the maximum I_{DD} guaranteed value considering the worst-case conditions for process, temperature, and voltage.
- 2. DVFSC and DVFSQ disabled.



315b: x32 Mobile LPDDR5 SDRAM Revision History

Revision History

Rev. A - 4/2020

· Initial release

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This data sheet contains initial characterization limits that are subject to change upon full characterization of production devices.