

**MEMORY MODULE****MANUFACTURER**

Kingston

**SERIES**

Not determined

**PART NUMBER**

KHX3200C16D4/8GX

**SERIAL NUMBER**

23464E0Fh

**JEDEC DIMM LABEL**

8GB 1Rx8 PC4-2400T-UA2-11

**ARCHITECTURE**

DDR4 SDRAM UDIMM

**SPEED GRADE**

DDR4-2400T downbin

**CAPACITY**

8 GB (8 components)

**ORGANIZATION**

1024M x64 (1 rank)

**REGISTER MODEL**

N/A

**MANUFACTURING DATE**

Sep 30 - Oct 4 / Week 40, 2019

**MANUFACTURING LOCATION**

Keelung, Taiwan

**REVISION / RAW CARD**

4A00h / A2 (8 layers)

**DRAM COMPONENTS****MANUFACTURER**

Micron Technology

**PART NUMBER**

D9WSM (MT40A1G8SA-062E:J)

**PACKAGE**

Standard Monolithic 78-ball FBGA

**DIE DENSITY / COUNT**

8 Gb J-die (Z21C / 17 nm) / 1 die

**COMPOSITION**

1024Mb x8 (64Mb x8 x 16 banks)

**CLOCK FREQUENCY**

1200 MHz (0,833 ns)

**MINIMUM TIMING DELAYS**

17-17-17-39-55

**READ LATENCIES SUPPORTED**

18T, 17T, 16T, 15T, 14T, 13T, 12T...

**SUPPLY VOLTAGE**

1,20 V

**XMP CERTIFIED**

1600 MHz / 16-18-18-36-74 / 1,35 V

**XMP EXTREME**

1502 MHz / 15-17-17-36-69 / 1,35 V

**SPD REVISION**

1.1 / September 2015

**XMP REVISION**

2.0 / December 2013

FREQUENCY	CAS	RCD	RP	RAS	RC	FAW	RRDS	RRDL	WR	WTRS
1200 MHz	18	17	17	39	55	26	4	6	18	3
1200 MHz	17	17	17	39	55	26	4	6	18	3
1067 MHz	16	15	15	35	49	23	4	6	16	3
1067 MHz	15	15	15	35	49	23	4	6	16	3
933 MHz	14	13	13	30	43	20	4	5	14	3
933 MHz	13	13	13	30	43	20	4	5	14	3
800 MHz	12	11	11	26	37	17	3	4	12	2
800 MHz	11	11	11	26	37	17	3	4	12	2
667 MHz	10	10	10	22	31	14	3	4	10	2
FREQUENCY	CAS	RCD	RP	RAS	RC	FAW	RRDS	RRDL		
1600 MHz		16	18	18	36	74	34	7	9	
1502 MHz		15	17	17	36	69	32	7	7	

Version: 16.1.0.0 Build 1101