

## KVR16LS11K2/8

8GB (4GB 1Rx8 512M x 64-Bit x 2pcs.) PC3L-12800  
CL11 204-Pin SODIMM Kit

### DESCRIPTION

This document describes ValueRAM's kit of two 512M x 64-bit (4GB) DDR3L-1600 CL11 SDRAM (Synchronous DRAM), 1Rx8, low voltage, memory module, based on eight 512M x 8-bit FBGA components. Total kit capacity is 8GB. The SPD is programmed to JEDEC standard latency DDR3-1600 timing of 11-11-11 at 1.35V or 1.5V. This 204-pin SODIMM uses gold contact fingers. The electrical and mechanical specifications are as follows:

### FEATURES

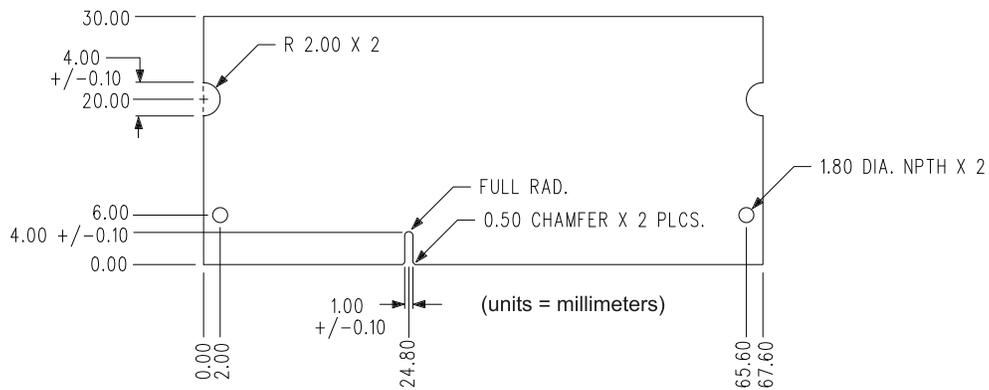
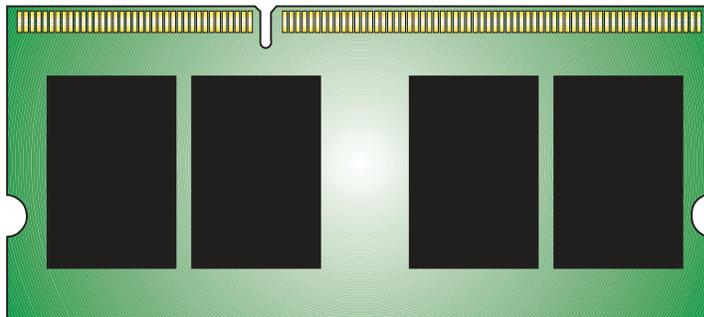
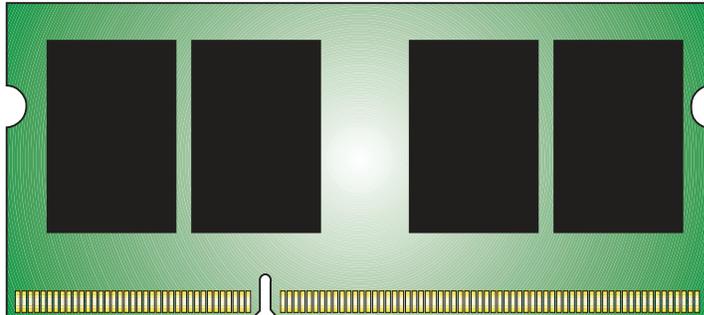
- JEDEC standard 1.35V and 1.5V Power Supply
- VDDQ = 1.35V and 1.5V
- 800MHz fCK for 1600Mb/sec/pin
- 8 independent internal bank
- Programmable CAS Latency: 11, 10, 9, 8, 7, 6, 5
- 8-bit pre-fetch
- Bi-directional Differential Data Strobe
- Internal(self) calibration : Internal self calibration through ZQ pin (RZQ : 240 ohm  $\pm$  1%)
- On Die Termination using ODT pin
- Average Refresh Period 7.8us at lower than TCASE 85°C, 3.9us at 85°C < TCASE < 95°C
- Asynchronous Reset
- PCB: Height 1.18" (30mm), double sided component
- RoHS Compliant

### SPECIFICATIONS

CL(IDD)	11 cycles
Row Cycle Time (tRCmin)	48.125ns (min.)
Refresh to Active/Refresh Command Time (tRFCmin)	260ns (min.)
Row Active Time (tRASmin)	35ns (min.)
UL Rating	94 V - 0
Operating Temperature	0° C to 85° C
Storage Temperature	-55° C to +100° C

Continued >>

### MODULE DIMENSIONS:



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