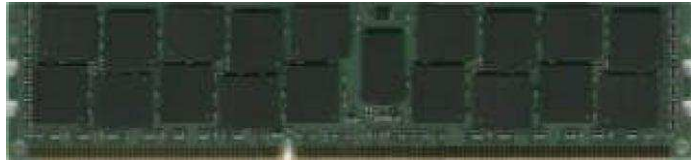


## Products in Family

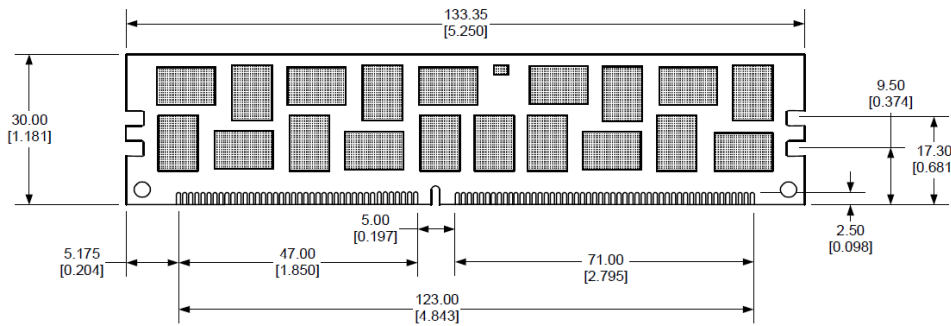
GRL1600R8/4GB (1 x 4GB 2Rx8 DIMM)  
 GRL1600R/8GB (1 x 8GB 2Rx4 DIMM)  
 GRL1600R/16GB (1 x 16GB 2Rx4 DIMM)



| Features  | Description  |
|---|--|
| 240-pin JEDEC-compliant DIMMs<br>133.35 mm wide by 30 mm high (1.181" x 5.25")<br>Data Transfer Rate: 12.8 Gigabytes/sec<br>Operating Voltage: 1.5 V ±0.075<br>Fully RoHS Compliant<br>Thermal Sensor | Each GRL1600R upgrade consists of a single DDR3-1600 Registered ECC DIMM that conforms to JEDEC's DDR3, PC3-12800 standard. One 2K-bit EEPROM is used for Serial Presence Detect and a combination register/PLL with Address and Command Parity is also used. A thermal sensor accurately monitors the DIMM module and can prevent exceeding the maximum operating temperature of 95C. |

| Dataram Product | Dell Product                 | Supported in these Dell systems:                                       |
|-----------------|------------------------------|--|
| GRL1600R8/4GB   | A5816827, A5681562, A5681560 | Dell PowerEdge R620, R715, R720, R720xd, R815, R820, M620, T620, C6220 |
| GRL1600R/8GB    | A5816812, A5681561, A5681559 |  |
| GRL1600R/16GB   | TBD                          |  |

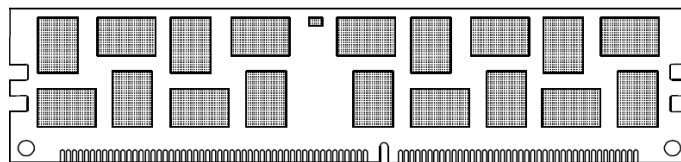
## Front view



## Notes

Tolerances on all dimensions except where otherwise indicated are ±.13 (.005).  
 All dimensions are expressed in millimeters [inches]

## Back view



## Side view

