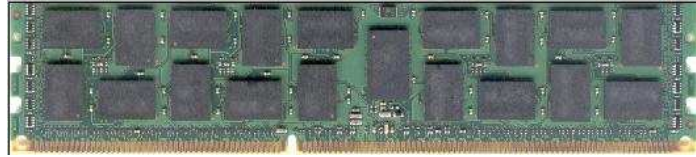


Products in Family

GRHA1333RSL/4GB (1 x 4GB 1Rx4 DIMM)
 GRHA1333RL/8GB (1 x 8GB 2Rx4 DIMM)
 GRHA1333RL/16GB (1 x 16GB 2Rx4 DIMM)



Features		Description
240-pin JEDEC-compliant DIMMs 133.35 mm wide by 30 mm high (1.181" x 5.25") Data Transfer Rate: 10.6 Gigabytes/sec Operating Voltage: 1.35 V ±0.075 (1.5 V tolerant) Fully RoHS Compliant Thermal Sensor Heat Spreader HP SmartMemory compliant		Each GRHA1333RL upgrade consists of a single DDR3-1333 Registered DIMM that conforms to JEDEC's DDR3, PC3L-10600 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	HP Product	Product Description:
GRHA1333RSL/4GB	647871-B21	4GB 1Rx4 PC3L-10600R-9
GRHA1333RL/8GB	647877-B21	8GB 2Rx4 PC3L-10600R-9
GRHA1333RL/16GB	647883-B21	16GB 2Rx4 PC3L-10600R-9

Notes

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

