# FULLY BUFFERED DIMM LOW POWER MODULE,1.5V
# 4GByte DDR2- 512MX72
# AVF7251B62F5800F7-AP

## FEATURES

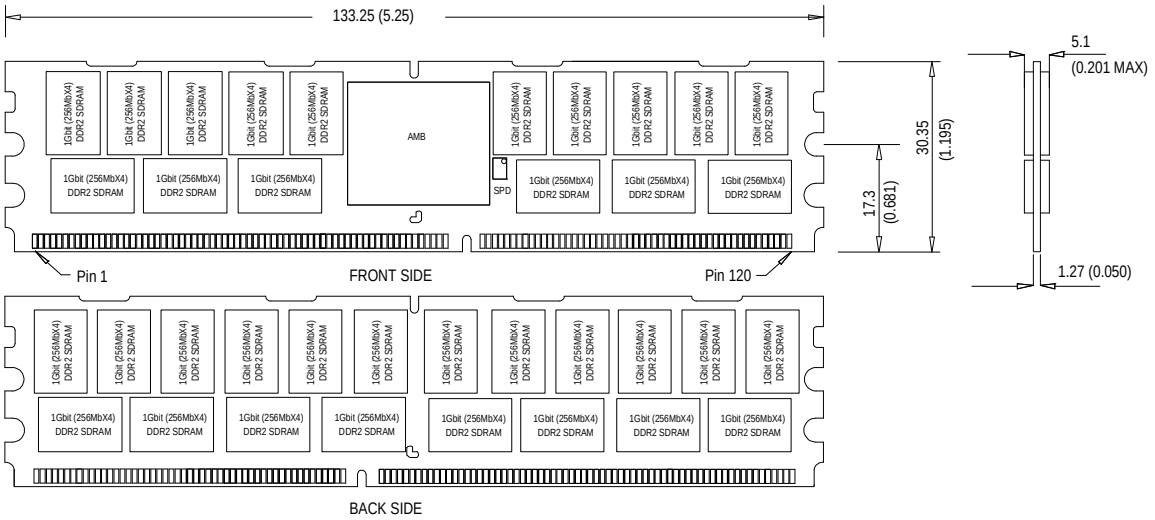
JEDEC DDR2 fully buffered (FBDIMM) with ECC PC2-6400 800MHz, Lead Free, RoHS compliant

- Clock frequency: 400MHz with CAS latency 5
- Very low-power DDR2 operation
- 256 byte serial EEPROM
- SMBus interface to AMB for configuration register access
- In-band and out-of-band command access
- Automatic DDR2 SDRAM bus and channel calibration
- Programmable CAS latency: 5
- High speed, differential, point-to-point link
- Transmitter de-emphasis to reduce ISI
- MBIST and IBIST test functions
- Channel error detection and reporting
- 8K refresh per 64ms
- Gold egde contacts
- Double-sided module
- 30.35 (1.195) inch height

## DESCRIPTION

The AVF7251B62F5800F7-AP is a fully buffered DDR2 SDRAM DIMM module. This module is JEDEC Pinout compatible DDR2 SDRAM Buffered DIMM with heatsink spreader. The module consumes less power than the standard 1.8V FBDIMM. This module can be powered on at 1.8V for up to 100ms for system initialization and module voltage configuration. It provides a high memory bandwidth, large capacity channel solution that has a narrow host interface. The module utilizes commodity DRAMs isolated from the channel behind a buffer on the DIMM. A 256 byte serial EEPROM on board can be used to store module information such as timing, configuration, density, etc.
The AVF7251B62F5800F7-AP memory module is 4GByte and organized as 512MX72 ECC array using (36) 256MX4 DDR2 SDRAMs in lead-free FBGA packages.
The module PCB is fabricated using the latest technology design, ten-layer printed circuit board substrate construction with low ESR decoupling capacitors on-board for high reliability and low noise.

## PHYSICAL DIMENSIONS




NOTES: 1- All dimensions are in milimeters (inches)
2- The dimensional drawings are for reference only. Refer to the JEDEC document for additional information.

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## Avant Ordering Guides

| AV | F | 72 | 51 | B | 62 | F | 5 | 800 | F | 7 |
|---|---|---|---|---|---|---|---|---|---|---|
| **INVENTORY** | **MOD. TYPE** | **ORG.** | **DENSITY** | **PARITY** | **TYPE** | **VOLT.** | **FEATURE** | **SPEED** | **MODE** | **REV** |
| AV=AVANT | F=240-PIN DDR2 DIMM | 72=X72 | 51=512M | B=BUFFERED | 62 = 32Mx4x8 (DDR2 SDRAM) | F = 1.5V | 5 = CAS LATENCY 5 | 800MHz | F=DDR2 SDRAM | REV=7 |

Other options may be available. Call for specific part number information on options not listed.

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