

**ACT1GHU64B8F1066S**  
1GB DDR3-1066 Unbuffered non-ECC DIMM

**Description**

ACTICA ACT1GHU64B8F1066S is a high speed 1GB DDR3-1066 Unbuffered non-ECC DIMM . It is designed for mission critical application memory solution. The module is fully compliant with JEDEC specifications. Decoupling capacitors are mounted on the PCB board for better signal integrity. The DIMM feature serial presence detect (SPD) based on a serial EEPROM device using the 2-pin I2C protocol.

| Features  | Value             |
|---|-------------------|
| ACTICA memory P/N                                       | ACT1GHU64B8F1066S |
| CL-tRCD-tRP   | 7-7-7             |
| RoHS compliant  | Yes               |
| Supply Voltage  | 1.5V ± 0.075V     |
| JEDEC standard  | Yes               |
| Operating Temperature*                                  | 0 - 95 °C         |
| <b>Timing Parameter:</b>                                |                   |
| tCK (Clock Cycle Time)                                  | 1.875ns           |
| tRCD (Ras and Cas Delay)                                | 13.125ns          |
| tRP (Row Precharge Time)                                | 13.125ns          |
| tRAS (Row Active Time)                                  | 37.5ns            |
| tIH (Input Hold Time)                                   | 125ps             |
| tIS (Input Setup Time)                                  | 200ps             |
| <b>Operating Current:</b>                               |                   |
| IDD0 (Operating one bank active-precharge current)      | 900 mA            |
| IDD1 (Operating one bank active-read-precharge current) | 950 mA            |
| IDD2P (Precharge power-down current)                    | 80 mA             |
| IDD3N (Active standby current)                          | 480 mA            |
| IDD6 (Self refresh current)                             | 50 mA             |

\* At 85 - 95 °C operation temperature range, doubling refresh commands in frequency to a 32ms period ( tREFI=3.9 us ) is required, and to enter to self refresh mode at this temperature range, an EMRS command is required to change internal refresh rate.

**Physical Dimension** (drawing not in scale) Units : in Millimeters

