

ACT1GFR72K8F533S
1GB FB-DIMM DDR2-533 ECC DIMM

Description

ACTICA ACT1GFR72K8F533S is a high speed 1GB FB-DIMM DDR2-533 ECC DIMM . It is designed for mission critical application memory solution. This DIMM includes Error Checking and Correcting (ECC) for maximum reliability. The modules is constructed using Samsung SDRAMs, and 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.

| Features | Value |
|--|------------------|
| ACTICA memory P/N | ACT1GFR72K8F533S |
| CL-tRCD-tRP | 4-4-4 |
| ECC | Yes |
| RoHS compliant | Yes |
| Supply Voltage | 1.8V ± 0.1V |
| AMB Supply Voltage | 1.5V ± 0.05V |
| JEDEC standard | Yes |
| Operating Temperature* | 0 - 95 °C |
| Timing Parameter: | |
| tCK (Clock Cycle Time) | 3.75ns |
| tRCD (Ras and Cas Delay) | 15ns |
| tRP (Row Precharge Time) | 15ns |
| tRAS (Row Active Time) | 45ns |
| Operating Current: | |
| Idd_Idle_0 (Idle Current, single or last DIMM) | 660 mA |
| Idd_Idle_1 (Idle Current, first DIMM) | 660 mA |
| Idd_Active_1 (Active Power) | 2,070 mA |
| Idd_Active_2 (Active Power, data pass through) | 660 mA |
| Idd_Training | 1,400 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

** not including AMB current

Physical Dimension (drawing not in scale) Units : in Millimeters
(with heat spreader)

