

**ACT1GFR72K8F800S**  
1GB FB-DIMM DDR2-800 ECC DIMM

Preliminary

**Description**

ACTICA ACT1GFR72K8F800S is a high speed 1GB FB-DIMM DDR2-800 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	ACT1GFR72K8F800S
CL-tRCD-tRP	5-5-5
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
<b>Timing Parameter:</b>	
tCK (Clock Cycle Time)	2.5ns
tRCD (Ras and Cas Delay)	12.5ns
tRP (Row Precharge Time)	12.5ns
tRAS (Row Active Time)	45ns
<b>Operating Current:</b>	
Idd_Idle_0 (Idle Current, single or last DIMM)	800 mA
Idd_Idle_1 (Idle Current, first DIMM)	800 mA
Idd_Active_1 (Active Power)	2,520 mA
Idd_Active_2 (Active Power, data pass through)	800 mA
Idd_Training	1,750 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)

