

ACT512FR72J8F533S
512MB FB-DIMM DDR2-533 ECC DIMM

Description

ACTICA ACT512FR72J8F533S is a high speed 512MB 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	ACT512FR72J8F533S
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)	390 mA
Idd_Idle_1 (Idle Current, first DIMM)	390 mA
Idd_Active_1 (Active Power)	1,800 mA
Idd_Active_2 (Active Power, data pass through)	390 mA
Idd_Training	1,140 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)

