

512 Megabit Synchronous DRAM

DPD128MX4WY5

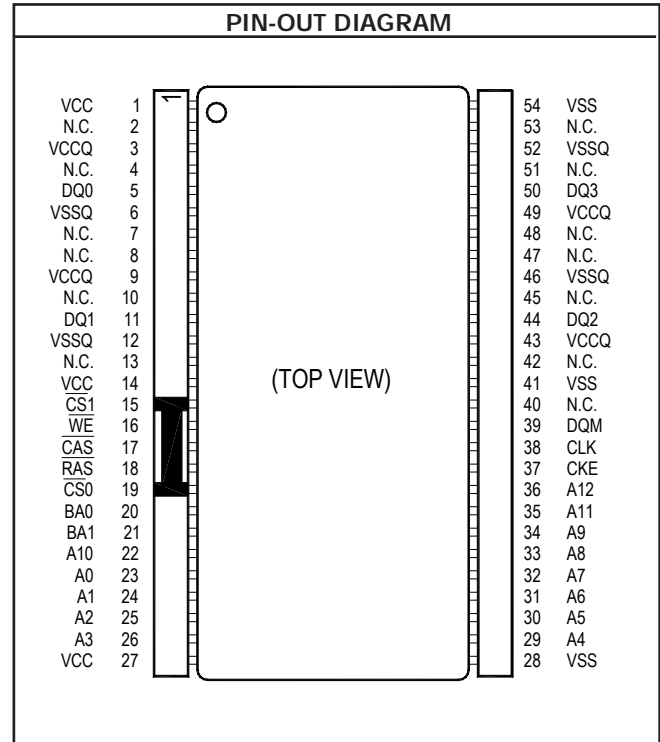
DESCRIPTION:

The LP-Stack™ series is a family of interchangeable memory modules. The 512 Megabit SDRAM is a member of this family which utilizes the new and innovative space saving TSOP stacking technology. The modules are constructed with 64 Meg x 4 SDRAMs.

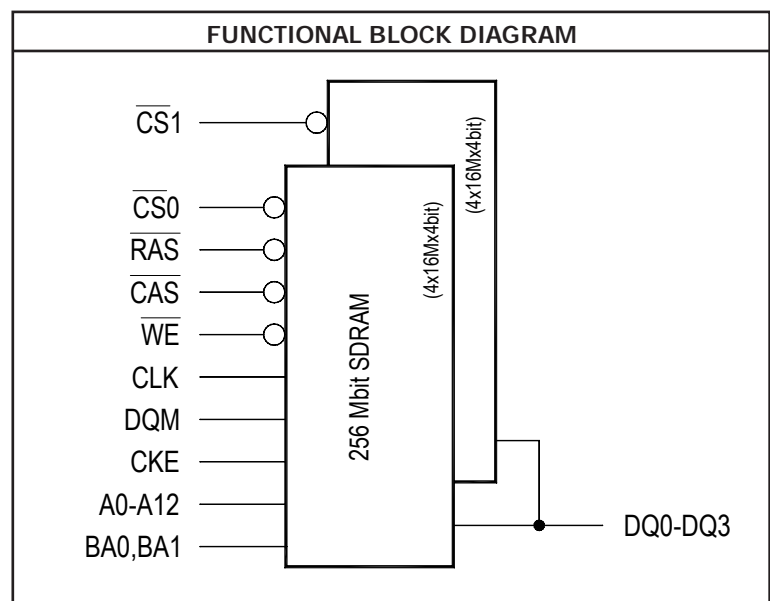
This 256 Megabit based LP-Stack™ module, the DPD128MX4WY5 has been designed to fit in the same footprint as the 64 Meg x 4 SDRAM TSOP monolithic and 64 Megabit SDRAM based family of LP-Stack™ modules. This allows the memory board designer to upgrade the memory in their products without redesigning the memory board, thus saving time and money.

FEATURES:

- Configuration Available:
128 Meg x 4 (2 Banks of 16M x 4 x 4 bits)
- Clock Frequency:
66, 83, 100, 125, 133 MHz (max.)
- PC100 and PC133 Compatible
- 3.3V Supply
- LVTTTL Compatible I/O
- Four Bank Operation
- Programmable Burst Type, Burst Length, and CAS Latency
- 8192 Cycles / 64 ms
- Auto and Self Refresh
- Package: TSOP Leadless Stack



PIN NAMES	
A0-A12	Row Address: A0-A12 Column Address: A0-A9, A11
BA0,BA1	Bank Select Address
DQ0-DQ3	Data In/Data Out
CAS	Column Address Strobe
RAS	Row Address Enable
WE	Data Write Enable
DQM	Data Input/Output Mask
CKE	Clock Enable
CLK	System Clock
CS0-CS1	Chip Selects
Vcc/Vss	Power Supply/Ground
Vccq/Vssq	Data Output Power/Ground
N.C.	No Connect

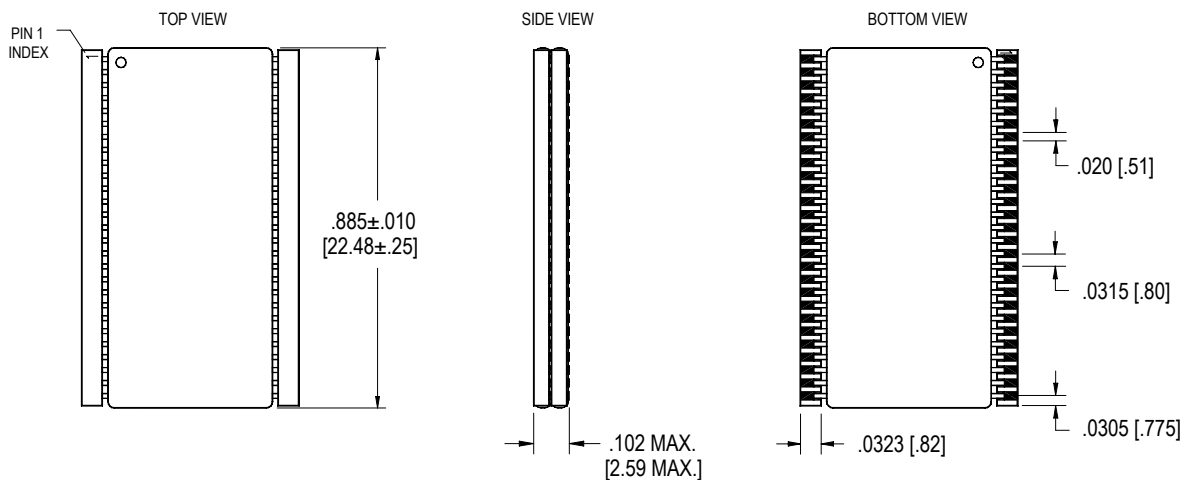


PART NUMBER DESCRIPTION

DP PREFIX	SD TYPE	128M MEMORY DEPTH	X DESIG	4 MEMORY WIDTH	W DESIG	Y5 PACKAGE	- SUPPLIER	- MEMORY	XX SPEED	XX CL	X GRADE	
												Blank Commercial Temperature
												2 CAS LATENCY 2
												15 15ns (66MHz)
												12 12ns (83MHz)
												10 10ns (100MHz)
												08 8ns (125MHz)
												75 7.5ns (133MHz)
												P1 PC100
												MANUFACTURER CODE *
												SUPPLIER CODE *
												STACKABLE TSOP
												256 MEGABIT LVTTTL BASED
												MEMORY MODULE WITHOUT SUPPORT LOGIC
												SYNCHRONOUS DRAM

* Contact your sales representative for supplier and manufacturer codes.

MECHANICAL DRAWING



Standard TSOP pad layout is acceptable, however, when possible, the following pad layout is recommended for optimal manufacture and inspection. See Application Note 53A001-00 for further information.

