

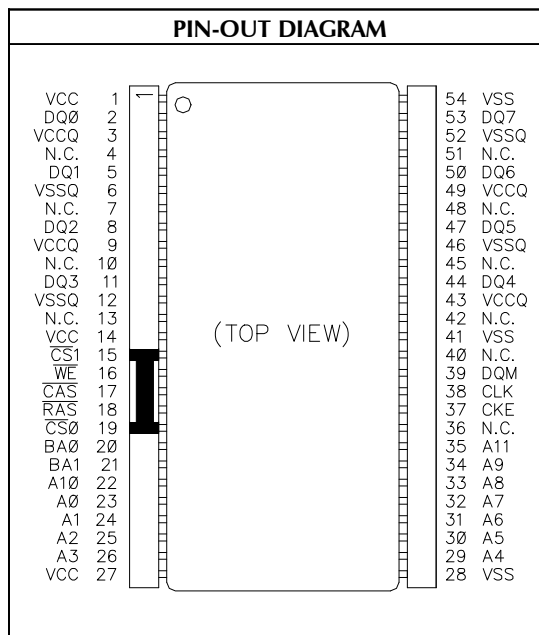
DESCRIPTION:

The LP-Stack™ series is a family of interchangeable memory modules. The 256 Megabit SDRAM is a member of this family which utilizes the new and innovative space saving TSOP stacking technology. The modules are constructed with 16 Meg x 8 SDRAMs.

This 128 Megabit based LP-Stack™ module, the DPSD32MX8TKY5 has been designed to fit in the same footprint as the 16 Meg x 8 SDRAM TSOP monolithic and 128 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.

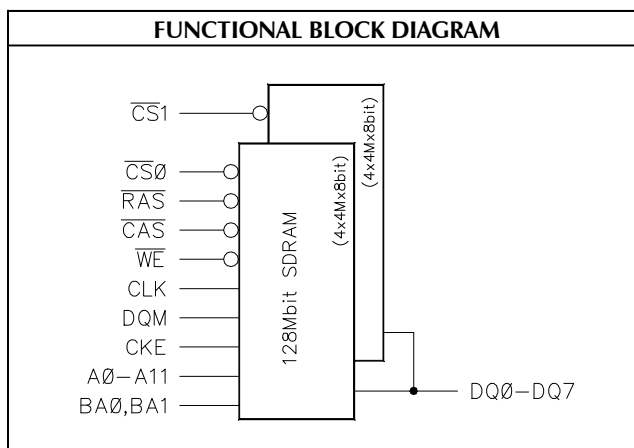
FEATURES:

- Configuration Available:
32 Meg x 8 (2 Banks of 4M x 4 x 8 bits)
- Clock Frequency:
66^[1], 83^[1], 100, 125^[2], 133^[2] MHz (max.)
- PC100 and PC133 Compatible
- 3.3V Supply
- LVTTTL Compatible I/O
- Four Bank Operation
- Programmable Burst Type, Burst Length, and CAS Latency
- 4096 Cycles / 64 ms
- Auto and Self Refresh
- Package: TSOP Leadless Stack



NOTES: [1] Available in Military and Industrial Temperature Ranges Only.
[2] Available in Commercial Temperature Range Only.

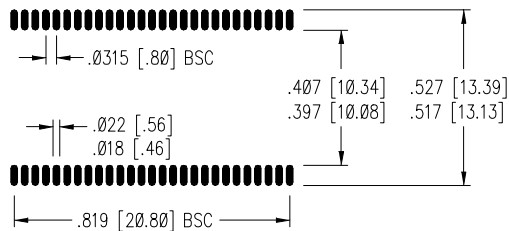
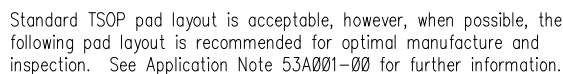
PIN NAMES	
A0 - A11	Row Address: A0 - A11 Column Address: A0 - A9
BA0, BA1	Bank Select Address
DQ0 - DQ7	Data In / Data Out
CAS	Column Address Strobe
RAS	Row Address Enables
WE	Data Write Enable
DQM	Data Input/Output Mask
CKE	Clock Enable
CLK	System Clock
CS0-CS1	Chip Selects
Vcc/Vss	Power Supply/Ground
Vccq/Vssq	Data Output Power/Ground
N.C.	No Connect



Dense-Pac Microsystems, Inc.

PART NUMBER DESCRIPTION											
<u>DP</u>	<u>SD</u>	<u>32M</u>	<u>X</u>	<u>8</u>	<u>TK</u>	<u>Y5</u>	<u>- DP - XX</u>	<u>XX</u>	<u>X</u>	<u>X</u>	
PREFIX	TYPE	MEMORY DEPTH	DESIG	MEMORY WIDTH	DESIG	PACKAGE	SUPPLIER	MEMORY	SPEED	CL	GRADE
											Blank Commercial Temperature I Industrial Temperature M Military Temperature 2 CAS LATENCY 2 15 [1] 15ns (66MHz)[1] 12 [1] 12ns (83MHz)[1] 10 10ns (100MHz) 0B[2] 8ns (125MHz)[2] 75[2] 7.5ns (133MHz)[2] P1 PC100 MANUFACTURER CODE ^[3] SUPPLIER CODE ^[3] STACKABLE TSOP 128 MEGABIT (16Mx8) LVTTL BASED MEMORY MODULE WITHOUT SUPPORT LOGIC SYNCHRONOUS DRAM

MECHANICAL DRAWING



7321 Lincoln Way, Garden Grove, California 92841-1431
(714) 898-0007 ♦ (800) 642-4477 ♦ FAX: (714) 897-1772 ♦ <http://www.dense-pac.com>