

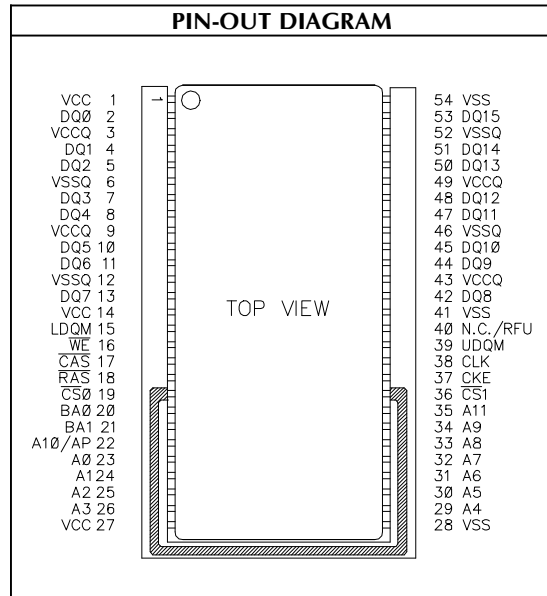
DESCRIPTION:

The *M-Densus* series is a family of interchangeable memory modules. The 128 Megabit SDRAM is a member of this family which utilizes the new and innovative space saving TSOP stacking technology. The modules are constructed with 4 Meg x 16 SDRAMs.

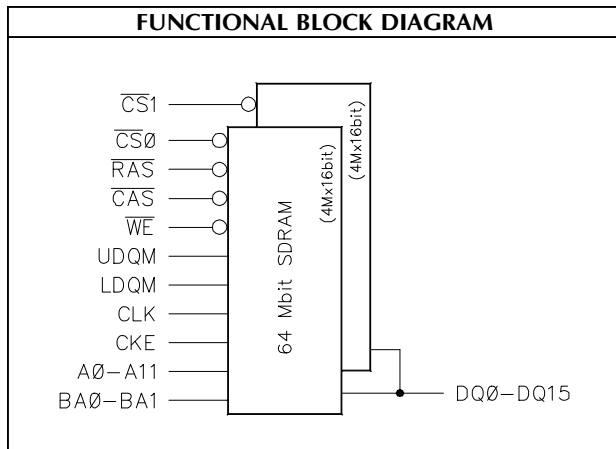
This 64 Megabit based *M-Densus* module, the DPSD8MX16RY5 has been designed to fit in the same footprint as the 4 Meg x 16 SDRAM TSOP monolithic and 64 Megabit SDRAM based family of *M-Densus* modules. This allows the memory board designer to upgrade the memory in their products without redesigning the memory board, thus saving time and money.

FEATURES:

- Configuration Available:
8 Meg x 16 bit (with two Chip Selects)
- 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



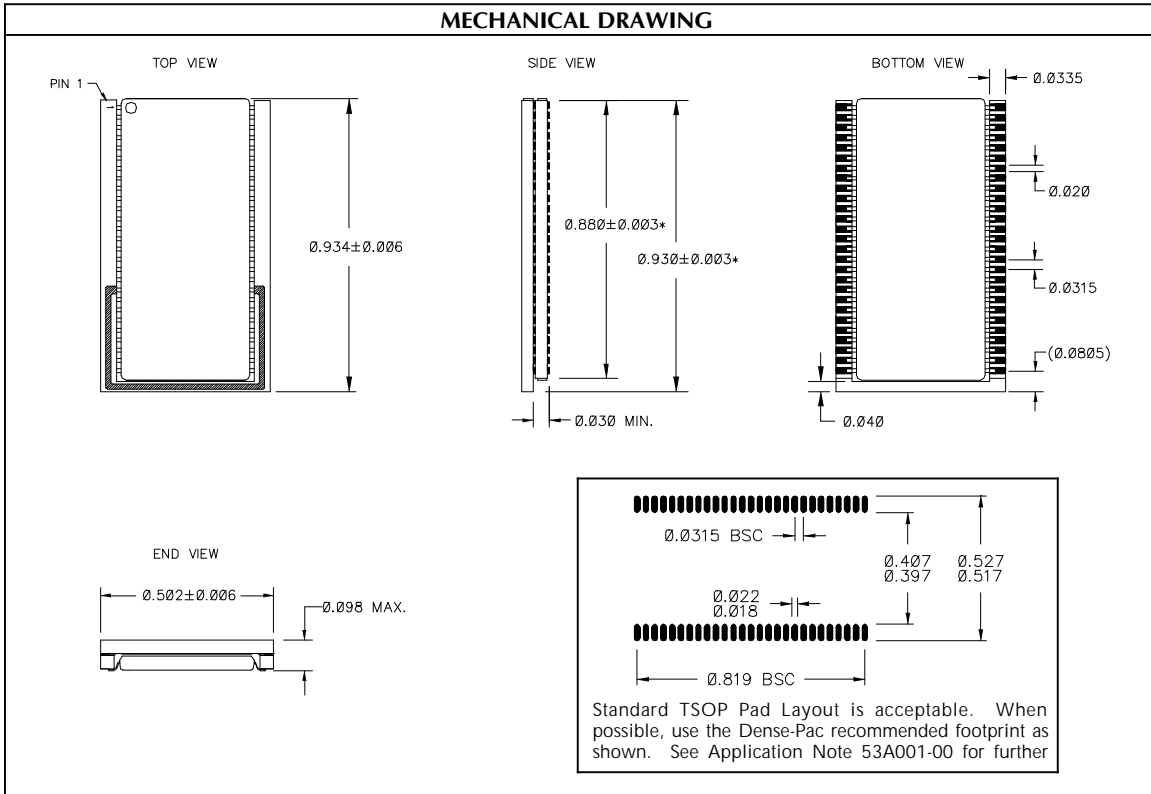
NOTES: [1] Available in Military and Industrial Temperature Ranges Only.
[2] Available in Commercial Temperature Range Only.



PIN NAMES	
A0 - A11	Row Address: A0 - A11 Column Address: A0 - A7
BA0, BA1	Bank Select Address
DQ0 - DQ15	Data In / Data Out
CAS	Column Address Strobes
RAS	Row Address Enables
WE	Data Write Enable
UDQM, LDQM	Upper & Lower Data Input/Output Mask
CKE	Clock Enable
CLK	System Clock
CS0-CAS1	Chip Selects
Vcc/Vss	Power Supply/Ground
Vccq/Vssq	Data Output Power/Ground
N.C./RFU	No Connect Reserved for Future Use

PART NUMBER DESCRIPTION												
DP	SD	8M	X	16	R	Y5	- DP	- XX	XX	X	X	
PREFIX	TYPE	MEMORY DEPTH	DESIG MEMORY WIDTH	DESIG MEMORY WIDTH	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) [2] 08 [2] 8ns (125MHz) [2] 75 [2] 7.5ns (133MHz) [2] P1 PC100 MANUFACTURER CODE [3] SUPPLIER CODE [3] STACKABLE TSOP 64 MEGABIT LVTTL BASED MEMORY MODULE WITHOUT SUPPORT LOGIC SYNCHRONOUS DRAM

NOTES: [1] Available in Military and Industrial Temperature Ranges Only.
 [2] Available in Commercial Temperature Range Only.
 [3] Contact your sales representative for supplier and manufacturer codes.



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