

128 Megabit Synchronous DRAM

DP4MX32RY5

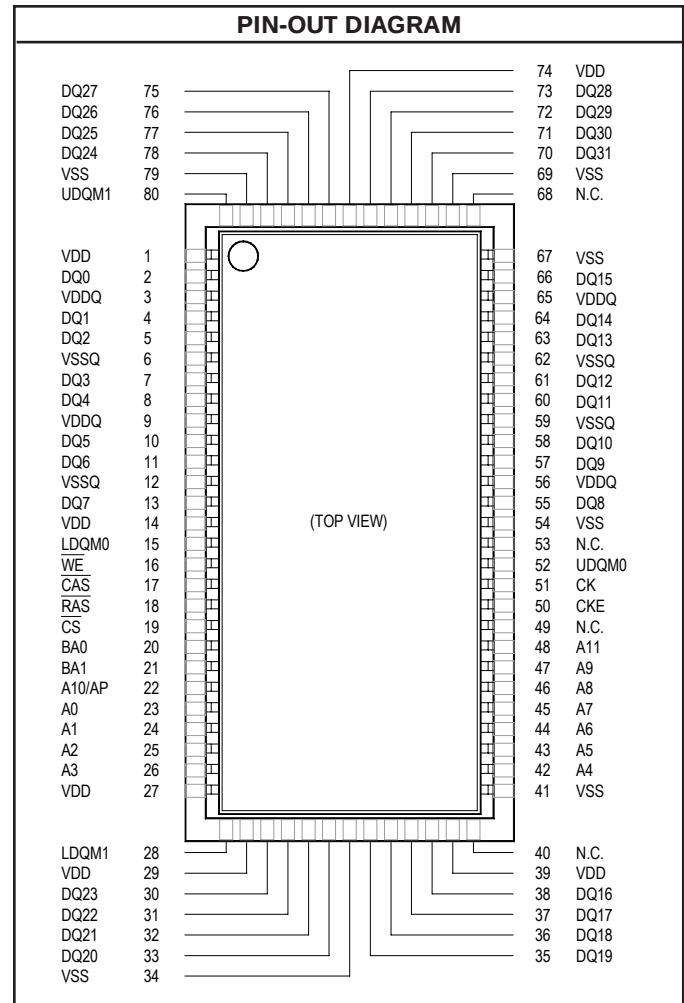
DESCRIPTION:

The LP-Stack™ 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.

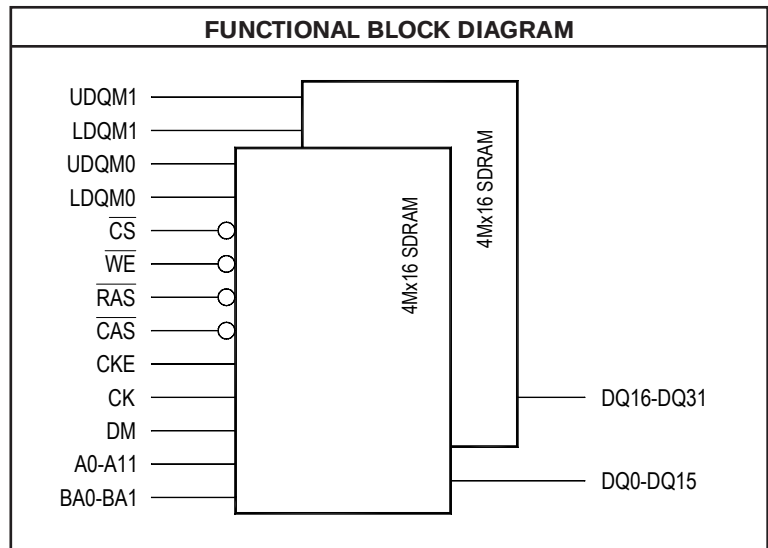
This 128 Megabit LP-Stack™ module, DP4MX32RY5, has been designed to allow 32 Output Data lines utilizing two 4 Meg x16 SDRAM TSOP monolithics. Utilizing this LP-Stack™ family allows the memory board designer to upgrade the memory in their products without redesigning the memory board, thus saving time and money.

FEATURES:

- Configuration Available:
4 Meg x 32 bit
- 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
- 4096 Cycles / 64 ms
- Auto and Self Refresh
- Package: TSOP Leadless Stack



PIN NAMES	
A0-A11	Row Address: A0-A11 Column Address: A0-A7
BA0,BA1	Bank Select Address
DQ0-DQ31	Data In/Data Out
CS	Chip Select
CAS	Column Address Strobe
RAS	Row Address Enable
WE	Data Write Enable
UDQM0,UDQM1	Upper Data Input/Output Masks
LDQM0,LDQM1	Lower Data Input/Output Masks
CKE	Clock Enable
CLK	System Clock
VDD/VSS	Power Supply/Ground
VCCQ/VSSQ	Data Output Power/Ground



ORDERING INFORMATION

DP PREFIX	SD TYPE	4M MEMORY DEPTH	X DESIG	32 MEMORY WIDTH	R DESIG	Y5 PACKAGE	- SUPPLIER	DP - MEMORY	XX SPEED	XX CL	X GRADE	X ^[1] 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 ^[1]
												SUPPLIER CODE ^[1]
												STACKABLE TSOP
												64 MEGABIT LVTTL BASED
												MEMORY MODULE WITHOUT SUPPORT LOGIC
												SYNCHRONOUS DRAM

NOTE: [1] Contact your sales representative for supplier and manufacturer codes.

MECHANICAL DRAWING

