



Dense-Pac Microsystems, Inc.

HIGH SPEED CERAMIC 256K X 16 CMOS SRAM MODULE

DPS256X16AA3

ADVANCED INFORMATION

7-46-23-14

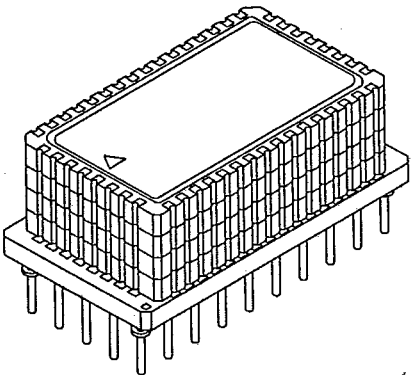
DESCRIPTION:

The DPS256X16AA3 "DENSE-STACK" module is a revolutionary new high speed memory subsystem using Dense-Pac Microsystems' ceramic Stackable Leadless Chip Carriers (SLCC) mounted on a co-fired ceramic substrate. The module packs 4-Megabits of low-power CMOS static RAM in an area of just over one half square inch (0.540 in²), while maintaining a height of only 0.430 inches.

The DPS256X16AA3 contains four individual 128K x 8 SRAMs, packaged in their own hermetically sealed SLCCs making the module suitable for commercial, industrial and military applications.

The module can be organized as 256K x 16 or 512K x 8 and features extremely low standby power making it suitable for battery backup.

By using SLCCs, the "Dense-Stack" family of modules offers a higher board density of memory than available with conventional through-hole, surface mount or hybrid techniques.

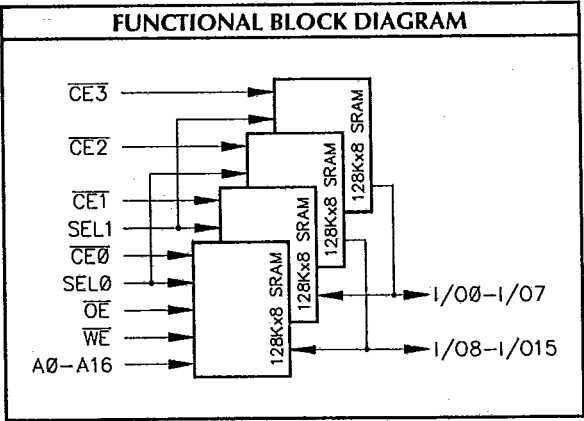


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FEATURES:

- Organizations Available: 256K x 16, 512K x 8
- Access Times: 35*, 45, 55, 70ns
- Fully Static Operation - No clock or refresh required
- Low Power Dissipation
 - 200µW (typ.) Standby
 - 780 mW (typ.) Operating
- Single +5V Power Supply, ±10% Tolerance
- TTL Compatible
- Common Data Inputs and Outputs
- Low Data Retention Current: 20µA typ. (2.0V)
- 50-Pin PGA Package

* Commercial only.



PIN-OUT DIAGRAM						PIN NAMES	
					(TOP VIEW)		
	A	B	C	D	A B C D E		
1	N.C.	N.C.	CE3	CE2	CE1	1	□ ○ ○ ○ ○
2	VSS	N.C.	N.C.	SEL1	VDD	2	○ ○ ○ ○ ○
3	N.C.	A16	WE	SEL0	A15	3	○ ○ ○ ○ ○
4	A14	A12	A7	A8	A13	4	○ ○ ○ ○ ○
5	A6	A5	OE	A11	A9	5	○ ○ ○ ○ ○
6	A4	A3	A2	CE0	A10	6	○ ○ ○ ○ ○
7	A1	A0	I/O5	I/O4	I/O3	7	○ ○ ○ ○ ○
8	I/O2	I/O1	I/O0	I/O7	I/O6	8	○ ○ ○ ○ ○
9	VSS	I/O9	I/O11	I/O13	VDD	9	○ ○ ○ ○ ○
10	I/O8	I/O10	I/O12	I/O14	I/O15	10	○ ○ ○ ○ ○
						A0-A16	Address Inputs
						I/O0-I/O15	Data Input/Output
						CE0-CE3	Low Chip Enables
						SEL0, SEL1	High Chip Enables
						WE	Write Enable
						OE	Output Enable
						VDD	Power (+5V)
						Vss	Ground
						N.C.	No Connect

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DETAILED INFORMATION WAS NOT AVAILABLE
AT THE PUBLICATION DATE.

CONTACT YOUR LOCAL SALES OFFICE
FOR MORE DETAILED INFORMATION.

Dense-Pac Microsystems, Inc.

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