T-46-23-14

128Kx32 CMOS High Speed Static RAM Module

The EDI8M32128C is a high speed, high performance, four megabit density Static RAM module organized as 128Kx32 bits. The module contains four 128Kx8 SRAMs in a Ceramic Pin Grid Array Package.

Four Chip Enables and Write Enables are provided to independently enable each of the four bytes. Reading or writing can be executed on an individual byte or any combination of bytes through proper use of the chip and write enables.

Fully asynchronous circuitry is used, requiring no clocks or refreshing for operation and providing equal access and cycle times for ease of use.

The EDI8M32128C is offered in a 66 lead PGA package which enables 4 megabits of memory to be placed in one square inch of space.

The device is available for both military and commercial applications.

Features

128Kx32 bit CMOS Static Random Access Memory Module

- Fast Access Times: 20, 25, 35, 45, and 55ns
- Individual Byte Selects
- Output Enable Function
- TTL Compatible Inputs and Outputs
- Fully Static, No Clocks

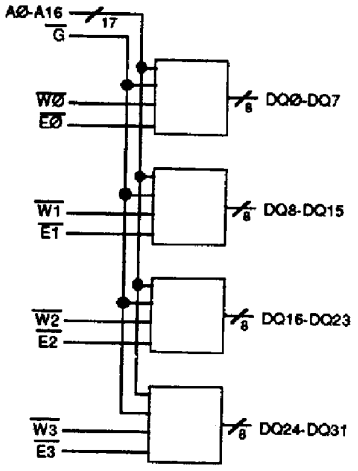
66 Lead Pin Grid Array Package, 1.1 in. sq. No. 168

- Multiple Ground Pins for Maximum Noise Immunity

Single +5V (±10%) Supply Operation

Pin Configuration and Block Diagram

DQ8	1	W1	12	DQ15	23	34	DQ24	45	VCC	56	DQ31
DQ9	2	E1	13	DQ14	24	35	DQ25	46	E3	57	DQ30
DQ10	3	VSS	14	DQ13	25	36	DQ26	47	W3	58	DQ29
A15	4	DQ11	15	DQ12	26	37	A4	48	DQ27	59	DQ28
A1	5	A11	16	G	27	38	A3	49	A7	60	A10
A16	6	A12	17	NC	28	39	NC	50	A6	61	A9
AØ	7	A2	18	WØ	29	40	A14	51	A5	62	A8
NC	8	VCC	19	DQ7	30	41	A13	52	W2	63	DQ23
DQØ	9	EØ	20	DQ6	31	42	DQ16	53	E2	64	DQ22
DQ1	10	NC	21	DQ5	32	43	DQ17	54	VSS	65	DQ21
DQ2	11	DQ3	22	DQ4	33	44	DQ18	55	DQ19	66	DQ20



Pin Names

AØ-A16	Address Inputs
EØ-E3	Chip Enables
WØ-W3	Write Enables
G	Output Enable
DQØ-DQ31	Common Data Input/Output
VCC	Power (+5V±10%)
VSS	Ground
NC	No Connection

Ordering Information

Military

Part No.	Speed ns	Leads	Package Style	No.
EDI8M32128C20GB	20	66	PGA	168
EDI8M32128C25GB	25	66	PGA	168
EDI8M32128C35GB	35	66	PGA	168
EDI8M32128C45GB	45	66	PGA	168
EDI8M32128C55GB	55	66	PGA	168

Commercial

Part No.	Speed ns	Leads	Package Style	No.
EDI8M32128C20GC	20	66	PGA	168
EDI8M32128C25GC	25	66	PGA	168
EDI8M32128C35GC	35	66	PGA	168
EDI8M32128C45GC	45	66	PGA	168
EDI8M32128C55GC	55	66	PGA	168