32, 64, 96, 128, 160, 256, 512 MB and 1GB 144-Pin SO-DIMM IDE Flash Module

FEATURES

- Capacities of 32MB to 1GB available
- Compact Form Factor designed to plug into a 144-pin SO-DIMM socket with IDE pinouts
- Standard IDE software Interface
- Master or Slave Mode with use of -CSEL pin
- Replaces IDE hard drive for applications where tough environments prohibit use of traditional rotating media
- Solid-State (no moving parts)
- High Shock and Vibration Limits
- 512 Byte Sector and ECC Defect Management Compatible to IDE Hard Disk Drives
- No "Spin" Noise Compared to Traditional Rotating Media
- Commercial and Industrial Operating Temperature Ranges Available
- 3.3V and 5.0V compatible VCC.

GENERAL DESCRIPTION

This SiliconTech product is a solid-state Flash IDE in a 144-pin Small Outline Dual In-line Memory Module (SO-DIMM) form factor. The module uses the standard IDE signals, common on IDE hard drives, arranged in a 144-pin card-edge connector.

The module is solid-state making it rugged and compact—ideal for applications where traditional rotating media is too fragile and bulky.

The use of card-edge connector technology commonly found in portable computers eliminates the installation confusion, the cost, and the potential failures commonly associated with interface cables.

In addition, the module uses low power, allowing for longer power-up time in battery-powered applications.

PIN SYMBOLS

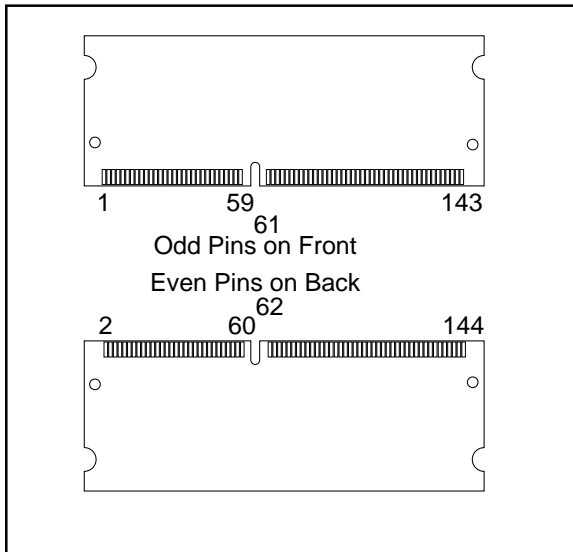Odd pins are NO CONNECT.
"-" indicates signal is active low.
Heavy black line indicates key.
* -CSEL low = Master; -CSEL high = Slave

Pin Num	Pin Symbol	Pin Num	Pin Symbol	Pin Num	Pin Symbol	Pin Num	Pin Symbol
2	GND	38	D11	74	-CE1	110	A2
4	VCC	40	NC	76	NC	112	-INPACK
6	GND	42	D3	78	NC	114	-REG
8	NC	44	NC	80	-CE2	116	-DASP
10	D7	46	D12	82	-IOR	118	-PDIAG
12	NC	48	NC	84	-IOW	120	A1
14	D8	50	D2	86	NC	122	A0
16	NC	52	NC	88	NC	124	-IO16
18	D6	54	D13	90	NC	126	VCC
20	NC	56	NC	92	NC	128	GND
22	D9	58	D1	94	NC	130	NC
24	NC	60	NC	96	HINT	132	NC
26	D5	62	D14	98	-CSEL*	134	NC
28	NC	64	NC	100	-HRST	136	NC
30	D10	66	D0	102	IORDY	138	NC
32	NC	68	NC	104	NC	140	NC
34	D4	70	D15	106	NC	142	NC
36	NC	72	NC	108	NC	144	NC

† "Preliminary" indicates that this product is in design and that parameters may change.

PIN LOCATIONS


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                    1        59              143
                             61
                        Odd Pins on Front

                        Even Pins on Back
                             62
                    2        60              144
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PACKAGE DIMENSIONS

Dimensions are in inches.
Tolerances are ±0.005 inches.
Drawing not to scale.
Keying for 3.3V 144-Pin SO-DIMM sockets.