

1M X 32 Bits (4MB) 80-Pin Flash SIMM (5V Only)

FEATURES

- Access Time of 90ns
- TTL compatible inputs and outputs
- 5V only power supply
- JEDEC standard
- Tin (option "T") or gold (option "G") edge connectors
- Three power on reset options
 - No power on reset: $\overline{RST}$ tied to V_{CC} (Option "V")
 - Power on reset: $\overline{RST}$ tied to power supervisor circuit (Option "R")
 - System control of power on reset: $\overline{RST}$ tied to pin 7 (Option "S"; this option is not JEDEC standard)
- AMD Part Number Am29F080B-90EC flash memory components
- Minimum 1,000,000 write/erase cycles

PIN CONFIGURATION

Pin Symbols

Pin	Symbol	Pin	Symbol	Pin	Symbol
1	V_{SS}	28	DQ_{31}	55	DQ_{15}
2	V_{CC}	29	$\overline{WE}_2$	56	DQ_{14}
3	NC	30	NC	57	DQ_{13}
4	$\overline{OE}$	31	NC	58	DQ_{12}
5	$\overline{WE}_0$	32	NC	59	DQ_{11}
6	$\overline{WE}_1$	33	A_{19}	60	DQ_{10}
7	$NC/\overline{RST}$	34	A_{18}	61	DQ_9
8	DQ_{16}	35	A_{17}	62	DQ_8
9	DQ_{17}	36	A_{16}	63	DQ_7
10	DQ_{18}	37	A_{15}	64	DQ_6
11	DQ_{19}	38	A_{14}	65	DQ_5
12	DQ_{20}	39	A_{13}	66	DQ_4
13	DQ_{21}	40	A_{12}	67	DQ_3
14	DQ_{22}	41	A_{11}	68	DQ_2
15	DQ_{23}	42	A_{10}	69	DQ_1
16	DQ_{24}	43	A_9	70	DQ_0
17	DQ_{25}	44	A_8	71	NC
18	DQ_{26}	45	A_7	72	V_{CC}
19	DQ_{27}	46	A_6	73	PD_1
20	DQ_{28}	47	A_5	74	PD_2
21	NC	48	A_4	75	PD_3
22	NC	49	A_3	76	PD_4
23	NC	50	A_2	77	PD_5
24	$\overline{CE}_0$	51	A_1	78	PD_6
25	V_{SS}	52	A_0	79	PD_7
26	DQ_{29}	53	$\overline{WE}_3$	80	V_{SS}
27	DQ_{30}	54	V_{SS}		

GENERAL DESCRIPTION

The SiliconTech SL29041-90(T/G)(V/R/S) is a 1M x 32 bits 80-Pin flash Single In-line Memory Module (SIMM). This module consists of four 1M x 8 bits CMOS flash memory in 40-pin TSOP packages mounted on an 80-pin glass epoxy substrate. Decoupling capacitors of 0.1 μ F are also mounted.

The module has a maximum access time of 90ns and 5V only power supply. Option "T" provides tin edge connectors and option "G" provides gold edge connectors. Option "R" provides power on reset through a power supervisor circuit; option "S" provides system control of power on reset by tying the reset signals to Pin 7; and option "V" provides no power on reset.

The module is intended for mounting into 80-pin edge connector sockets. The module uses the standard programming algorithms for AMD Am29F080B-90EC flash memory components.

Pin Function

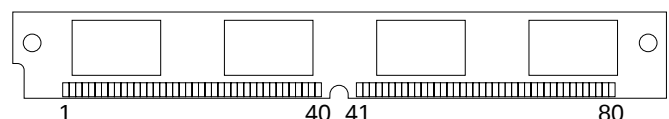
Pin Symbol	Pin Function
A_0 - A_{19}	Address Inputs
DQ_0 - DQ_{31}	Data In/Out
$\overline{CE}_0$	Chip Enable
$\overline{WE}_0$ - $\overline{WE}_3$	Write Enable
$\overline{OE}$	Output Enable
PD_1 - PD_7	Presence Detect
$\overline{RST}$	Reset
V_{CC}	Power (+5V)
V_{SS}	Ground
NC	No Connection

Presence Detect Pins*

Pin Name	Signal
PD_1	NC
PD_2	V_{SS}
PD_3	NC
PD_4	V_{SS}
PD_5	NC
PD_6	NC
PD_7	V_{SS}

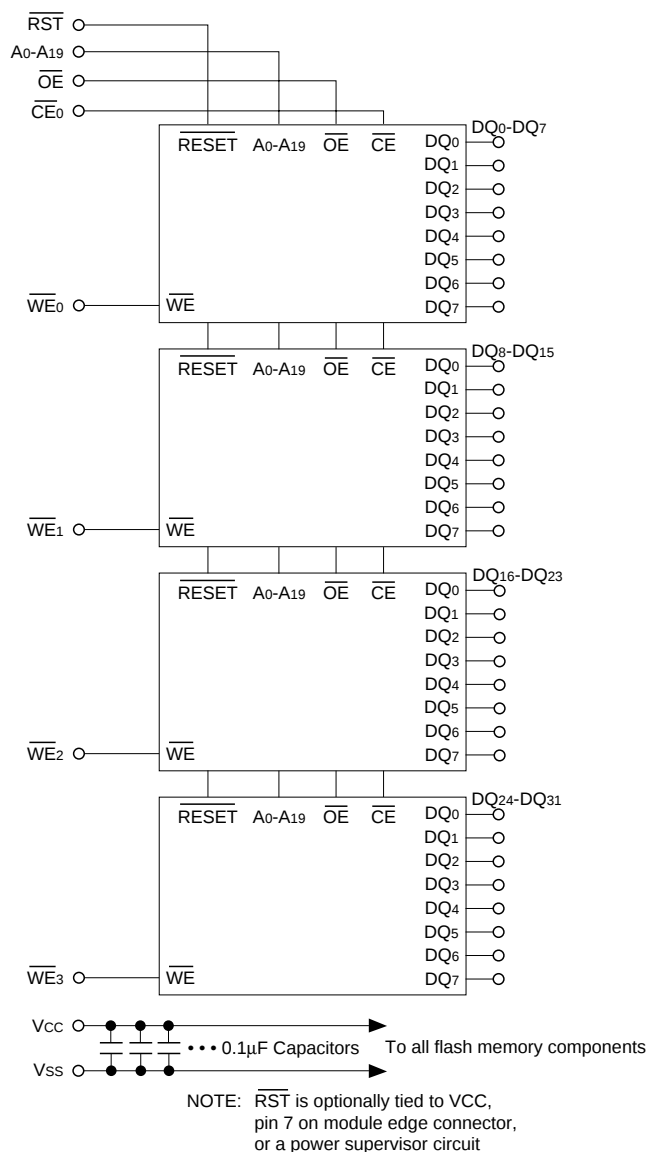
* Pin Connection Changing Available

Pin Locations



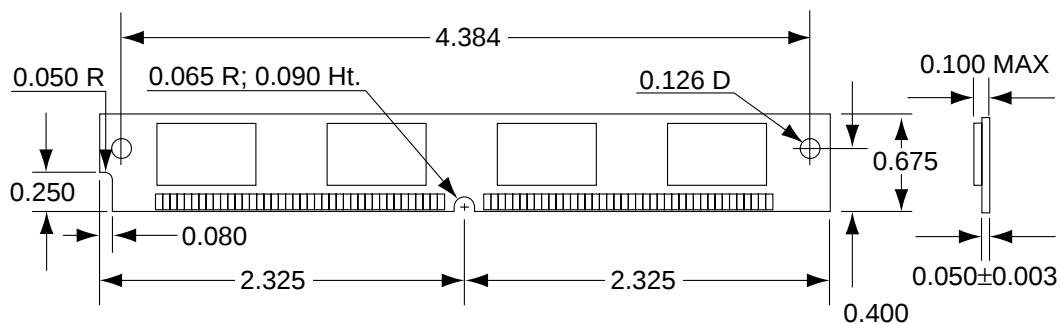
† Preliminary indicates that this product is in design and that parameters may change without further notice.

FUNCTIONAL BLOCK DIAGRAM



PACKAGE DIMENSIONS

Units: Inches

TOLERANCES: ± 0.005 UNLESS OTHERWISE SPECIFIED

TBD