



Features

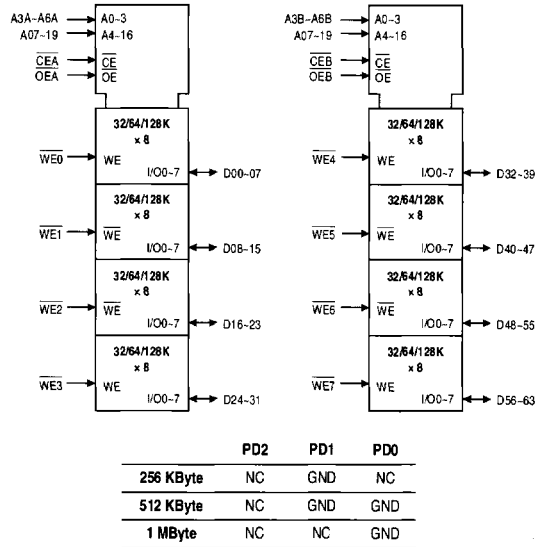
- ◆ Pentium™-ready 64-bit data path
- ◆ High speed: $t_{AA} = 10\text{--}20\text{ ns}$
- ◆ Low Power
 - 1.73W @ 66 MHz
 - 144 mW standby
- ◆ Same pinout for 256/512/1024KB
- ◆ High-quality 4-layer PCB

Pin Configuration

GND	81	1	GND	[VCC5]	123	43	VCC3
D63	82	2	D62	D09	124	44	D08
[VCC5]	83	3	VCC3	[P1]	125	45	[P0]
D61	84	4	D60	[VCC5]	126	46	VCC3
[VCC5]	85	5	VCC3	D07	127	47	D06
D58	86	6	D58	D05	128	48	D04
D57	87	7	D56	D03	129	49	D02
GND	88	8	GND	D01	130	50	D00
[P7]	89	9	[P6]	GND	131	51	GND
D55	90	10	D54	A3B	132	52	A3A
D53	91	11	D52	A4B	133	53	A4A
D51	92	12	D50	A5B	134	54	A5A
GND	93	13	GND	A6B	135	55	A6A
D49	94	14	D48	A07	136	56	A08
D47	95	15	D46	GND	137	57	GND
D45	96	16	D44	A09	138	58	A10
D43	97	17	D42	A11	139	59	A12
GND	98	18	GND	A13	140	60	A14
D41	99	19	D40	A15	141	61	A16
[P5]	100	20	[P4]	A17	142	62	A18
D39	101	21	D38	GND	143	63	GND
D37	102	22	D36	A19	144	64	P00
D35	103	23	D34	P01	145	65	P02
GND	104	24	GND	[CLK0]	146	66	[CLK1]
D33	105	25	D32	[CLK2]	147	67	[CLK3]
D31	106	26	D30	GND	148	68	GND
D29	107	27	D28	WE7	149	69	WE6
D27	108	28	D26	WE5	150	70	WE4
D25	109	29	D24	WE3	151	71	WE2
GND	110	30	GND	WE1	152	72	WE0
P3	111	31	[P2]	GND	153	73	GND
D23	112	32	D22	[ADSCA]	154	74	[ADSPA]
D21	113	33	D20	CEB	155	75	CEA
[VCC5]	114	34	VCC3	[ADV8]	156	76	[ADVA]
D19	115	35	D18	OEB	157	77	OEA
GND	116	36	GND	[VCC5]	158	78	VCC3
D17	117	37	D16	[ADSP8]	159	79	[ADSPA]
[VCC5]	118	38	VCC3	GND	160	80	GND
D15	119	39	D14				
D13	120	40	D12				
GND	121	41	GND				
D11	122	42	D10				

Signals in brackets [] = No Connection (provided for future compatibility)

Logic Block Diagram



	PD2	PD1	PD0
256 KByte	NC	GND	NC
512 KByte	NC	GND	GND
1 MByte	NC	NC	GND

Overview

The 7M64P3256, 7M64P3512, and 7M64P31024 are three members of Alliance's fast SRAM cache module family for Pentium™ processors and other advanced low voltage applications. Speed grades down to 10 ns are ideal for today's system requirements.

This family provides an upgradable SRAM solution for personal computer and server cache, as well as high performance DSP and embedded systems applications.

These modules are available in a CELP2x80 package and are pin-compatible with Alliance's 5V 64P family of modules.

Selection Guide

		7M64P256				7M64P512		7M64P1024		Unit
		-12	-15	-20	-15	-20	-20	-20		
Cache Size		256K	256K	256K	512K	512K	1M	1M	byte	
Maximum address access time	t_{AA}	12	15	20	15	20	20	20	ns	
Maximum operating current	I_{CC}	440	400	360	520	480	480	520	mA	
Maximum CMOS standby current	I_{SB}	8	8	8	20	20	40	40	mA	