

Description

The PUMA 84 range of devices provide a high density, surface mount memory solution with density up to twice that of standard monolithic devices.

The PUMA 84 may accomodate various memory technologies including SRAM, FLASH and EEPROM. The devices are designed to offer a defined upgrade path and may be user configured as 16, 32 or 64 bits wide.

The PUMA 84FV512000 is a 8M x 64, 2.7~3.6V NAND Flash Module in a 84 'J' Leaded package which complies with the JEDEC 84 PLCC standard.

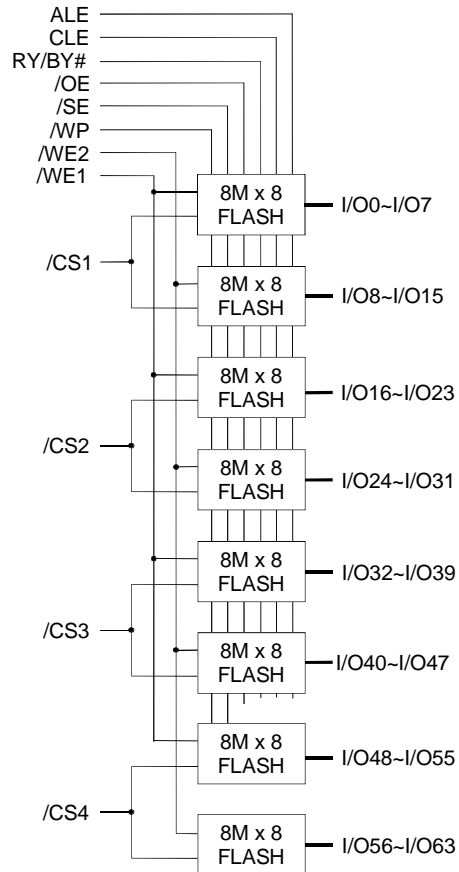
Features

- 512 Mbit 2.7~3.6V NAND Flash.
- May be organised as 8Mx64, 16Mx32 & 32Mx16
- Block architecture.
 - 8Kbyte blocks+256 byte spare area.
 - 512 byte page + 16 byte spare area for ECC and other system overhead information.
- Minimum 10K cycles per block
- Fast read and write performance
 - Read <7µs initial, < 50ns sequential
 - Program: 200µs (full page program at 400ns/byte)
 - Erase: < 2ms/8 Kbyte block
- Seperate V_{CCQ} for 5 volt I/O tolerance
- Embeded algorithms - Automated Program and Erase.
- Write Protect (/WP) pin to prevent inadvertent writes.
- Ready/Busy (RY/BY#) pin indicates program or erase cycle completion.
- Byte writes allowed via /WE1~2.
- 10 year data retention.
- Commercial and Industrial temperature grades.
- JEDEC Standard 84 'J' Lead surface mount package.

Package Details

PUMA 84 - Plastic 84 'J' Leaded Package.
 Max. Dimensions - 30.35 x 30.35 x 5.08 (Max.)
 All Dimensions in mm.

Block Diagram

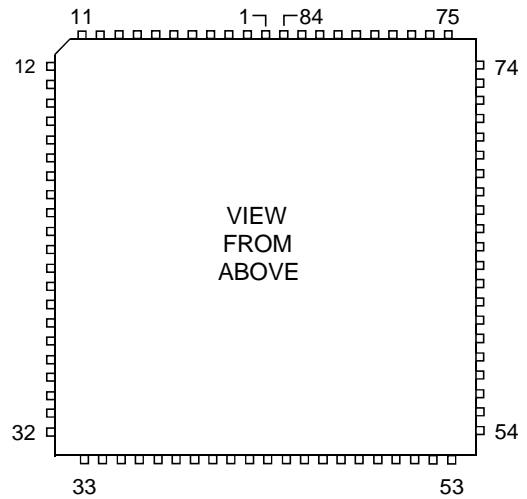


Pin Functions

Description	Signal
Input/Output	I/O0~I/O63
Chip Select	/CS1~4
Address Latch Enable	ALE
Command Latch Enable	CLE
Write Enable	/WE1~2
Output Enable	/OE
Spare Area Enable	/SE
Write Protect	/WP
Ready/Busy#	RY/BY#
No Connect	NC
I/O Voltage Supply	V_{CCQ}
Power	V_{CC}
Ground	GND

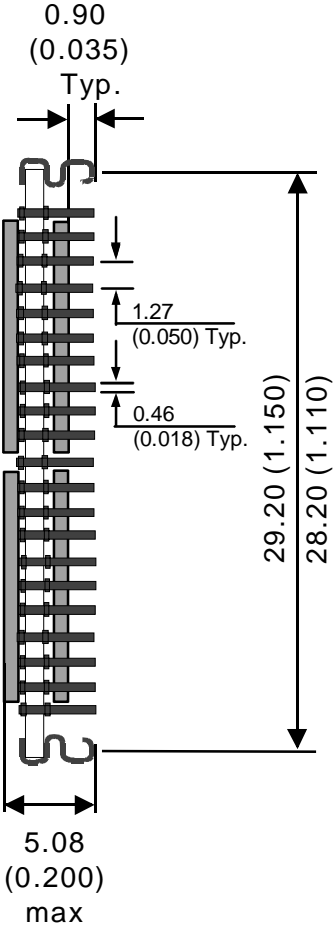
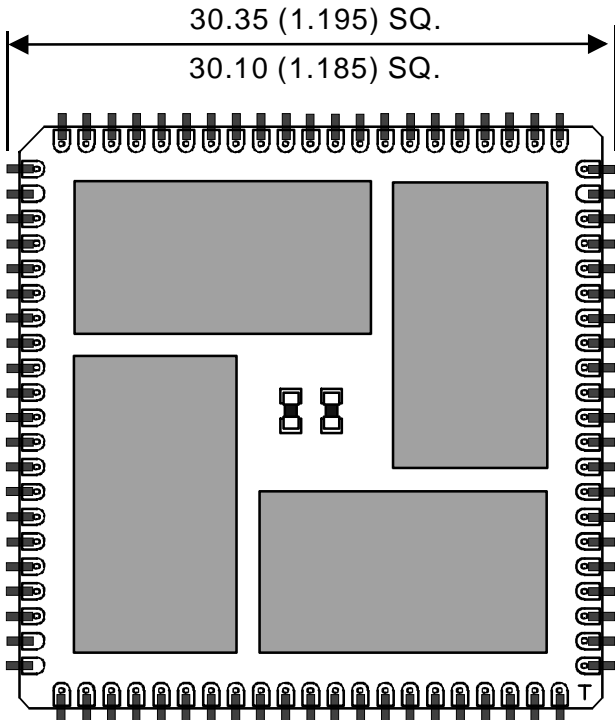
Pin Definition - PUMA84FV512000

Pin	Signal	Pin	Signal
1	I/O0	43	GND
2	I/O1	44	I/O32
3	I/O2	45	I/O33
4	I/O3	46	I/O34
5	I/O4	47	I/O35
6	I/O5	48	I/O36
7	I/O6	49	I/O37
8	I/O7	50	I/O38
9	I/O8	51	I/O39
10	I/O9	52	I/O40
11	I/O10	53	I/O41
12	I/O11	54	I/O42
13	I/O12	55	I/O43
14	I/O13	56	I/O44
15	I/O14	57	I/O45
16	I/O15	58	I/O46
17	GND	59	I/O47
18	/CS1	60	I/O48
19	VCCQ	61	I/O49
20	/WE1	62	VCCQ
21	/WE2	63	/CS3
22	/WP	64	RY/BY#
23	/OE	65	CLE
24	NC	66	ALE
25	/CS2	67	/SE
26	I/O16	68	/CS4
27	I/O17	69	GND
28	I/O18	70	I/O50
29	I/O19	71	I/O51
30	I/O20	72	I/O52
31	I/O21	73	I/O53
32	I/O22	74	I/O54
33	I/O23	75	I/O55
34	I/O24	76	I/O56
35	I/O25	77	I/O57
36	I/O26	78	I/O58
37	I/O27	79	I/O59
38	I/O28	80	I/O60
39	I/O29	81	I/O61
40	VCC	82	VCC
41	I/O30	83	I/O62
42	I/O31	84	I/O63



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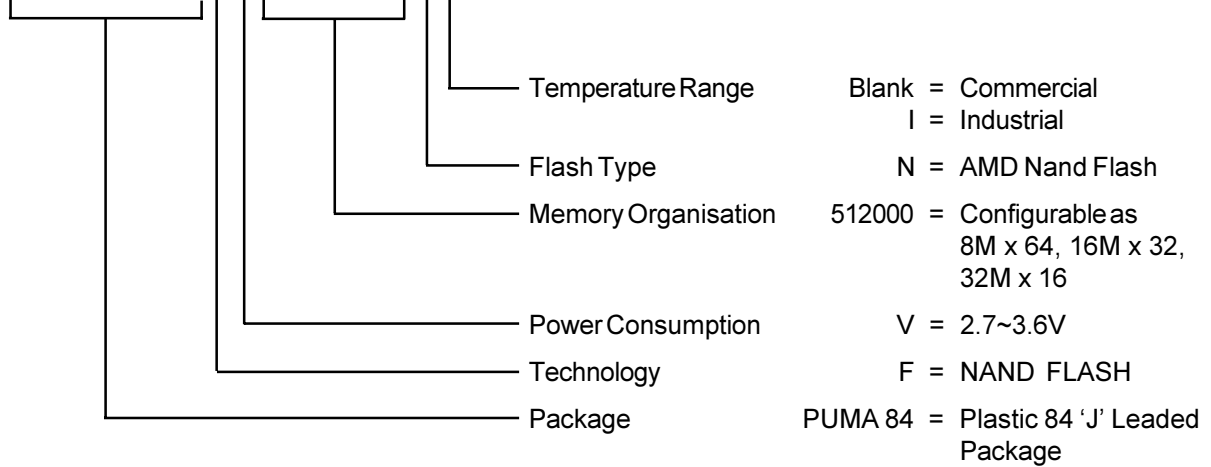
PUMA 84 - Plastic 84 'J' Leaded Package.



Package Details

Ordering Information

PUMA 84FV512000NI



Note :

Although this data is believed to be accurate the information contained herein is not intended to and does not create any warranty of merchantability or fitness for a particular purpose.

Our products are subject to a constant process of development. Data may be changed without notice.

Products are not authorised for use as critical components in life support devices without the express written approval of a company director.