



## PUMA 84E8001 - 12/15

Issue 1.0 August 2002

256K x 32 EEPROM Module

### 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 accommodate various memory technologies including SRAM, FLASH and EEPROM. The devices are designed to offer a defined upgrade path and may be user configured as 8, 16 or 32 bits wide.

The PUMA 84E8001 is a 1M x 32, 5V EEPROM Module in a 84 'J' Leaded package which complies with the JEDEC 84 PLCC standard.

Access times of 120 and 150 ns are available.

The 5V device is available to commercial and industrial temperature grade.

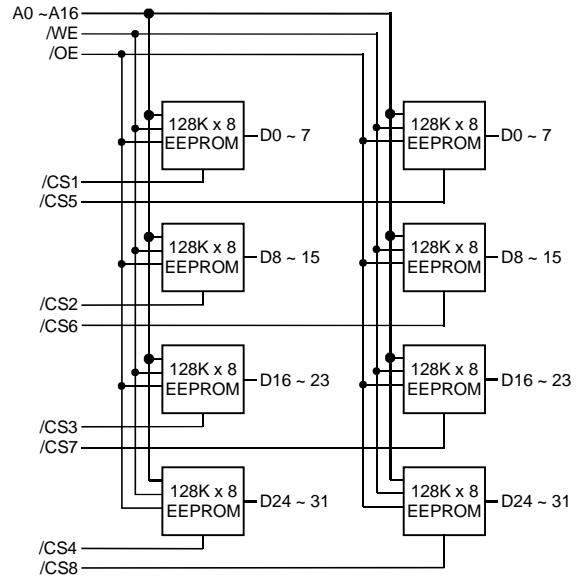
### Features

- Access times of 120 and 150ns.
- $5V \pm 10\% V_{CC}$
- Commercial and Industrial temperature grades
- JEDEC Standard 84 'J' Lead surface mount package.
- May be organised as 256K x 32, 512K x 16 or 1M x 8
- 1 - 128Byte Page Write Operation
- 10,000 Endurance, 10 year data retention

### Package Details

PUMA 84 - Plastic 84 'J' Leaded Package.  
 Max. Dimensions - 30.35 x 30.35 x 6.00 (nom)  
 All Dimensions in mm.

### Block Diagram



### Pin Definition

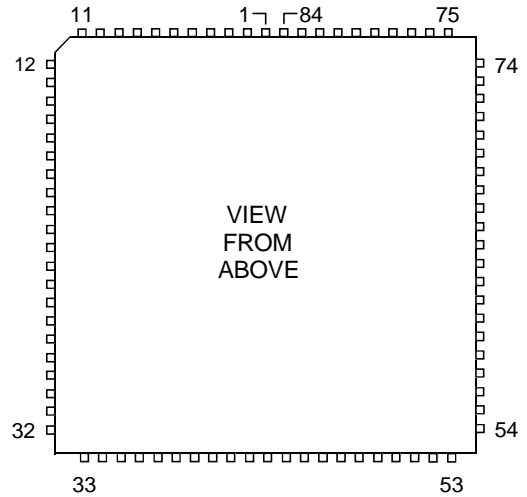
See page 2.

### Pin Functions

Description	Signal
Address Input	A0~A16
Data Input/Output	D0~D31
Chip Select	/CS1~8
Write Enable	/WE
Output Enable	/OE
No Connect	NC
Power	$V_{CC}$
Ground	$V_{SS}$

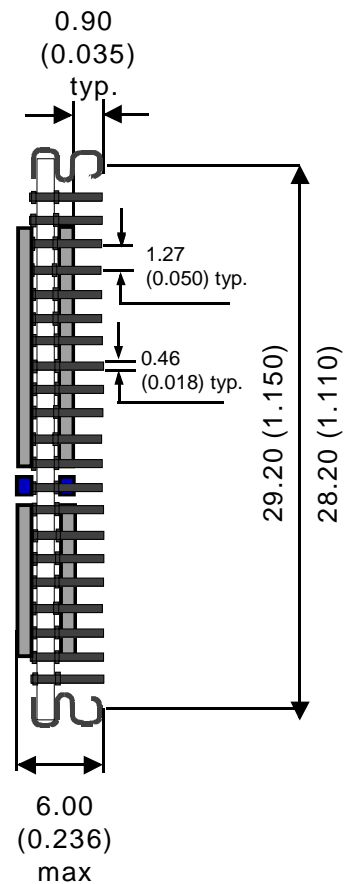
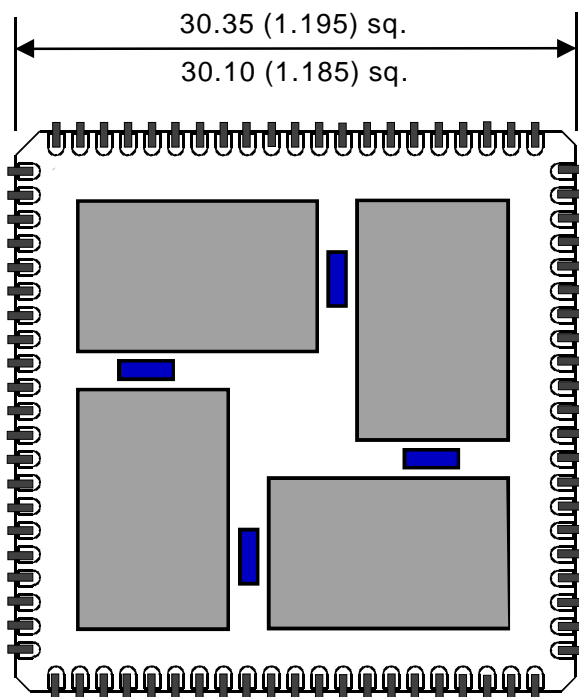
## Pin Definition - PUMA84FV256006

Pin	Signal	Pin	Signal
1	V <sub>CC</sub>	43	V <sub>CC</sub>
2	NC	44	A13
3	/CS1	45	A12
4	/CS2	46	A11
5	/CS3	47	A10
6	/CS4	48	A9
7	NC	49	A8
8	NC	50	A7
9	D16	51	D0
10	NC	52	NC
11	NC	53	NC
12	NC	54	NC
13	NC	55	NC
14	D17	56	D1
15	D18	57	D2
16	D19	58	D3
17	V <sub>SS</sub>	59	V <sub>SS</sub>
18	D20	60	D4
19	D21	61	D5
20	D22	62	D6
21	D23	63	D7
22	V <sub>CC</sub>	64	V <sub>CC</sub>
23	D24	65	D8
24	D25	66	D9
25	D26	67	D10
26	D27	68	D11
27	V <sub>SS</sub>	69	V <sub>SS</sub>
28	D28	70	D12
29	D29	71	D13
30	D30	72	D14
31	NC	73	NC
32	NC	74	NC
33	NC	75	D15
34	NC	76	A14
35	D31	77	A15
36	A6	78	A16
37	A5	79	/WE
38	A4	80	/OE
39	A3	81	/CS5
40	A2	82	/CS6
41	A1	83	/CS7
42	A0	84	/CS8



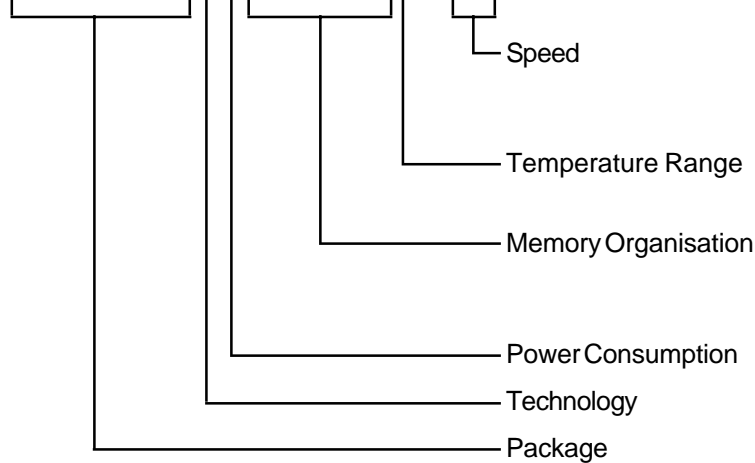
## Package Details

PUMA 84 - Plastic 84 'J' Leaded Package.



## Ordering Information

**PUMA 84 E 8001 I - 12**



- 12 = 120ns
- 15 = 150ns
- Blank = Commercial
- I = Industrial
- 10001 = configurable as 256K x 32, 512K x 16 or 1M x 8
- Blank =  $5V \pm 10\% V_{CC}$
- E = EEPROM
- PUMA 84 = Plastic 84 'J' Leaded Package

### 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.