Attansic® Technology Corporation

ATXP3

Jumper Free Over Clock Controller

Datasheet

Release Date: Jan. 2005
Revision: 2.2

Revision History

Version	Date	Changes from Last Version
1.0	Aug/30/2001	
1.01	Oct/18/2001	1. Modified pin names as followed: VCORE→LEVEL
2.0	Oct/29/2001	1. Specification Change: Eliminate Level pin and add one GPIO pin 2. Pin assignment change See page 2 for details
2.1	June/9/2003	1. Modify Package Information: ➔From "**E**=> Dimension in mm: 0.635 BASIC; Dimension in inch: 0.025 BASIC" to "**e** => Dimension in mm: 0.635 BASIC; Dimension in inch: 0.025 BASIC"
2.2	Jan/25/2005	Add "Ordering Information" about green device description

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1. General Description

ATXP3 is a full feature of over clocking device for Intel© CPU. It integrates all functions that are possible to be utilized for over-clocking purpose.

2. Features

- Provide Five VID Input (VIDIN0-4) and Five VID Output (VIDOUT0-4) Pins
- Support Auto-Recover
  - Build-in Watch Dog Timer & Reset Output Signal Pin
- Provide Ten GPIO Pins
- SM Bus Interface
- Provide CPU Changing Detect Pin (SLOTOCC#)
- Package: SSOP 28-Pin

3. Pin Configuration

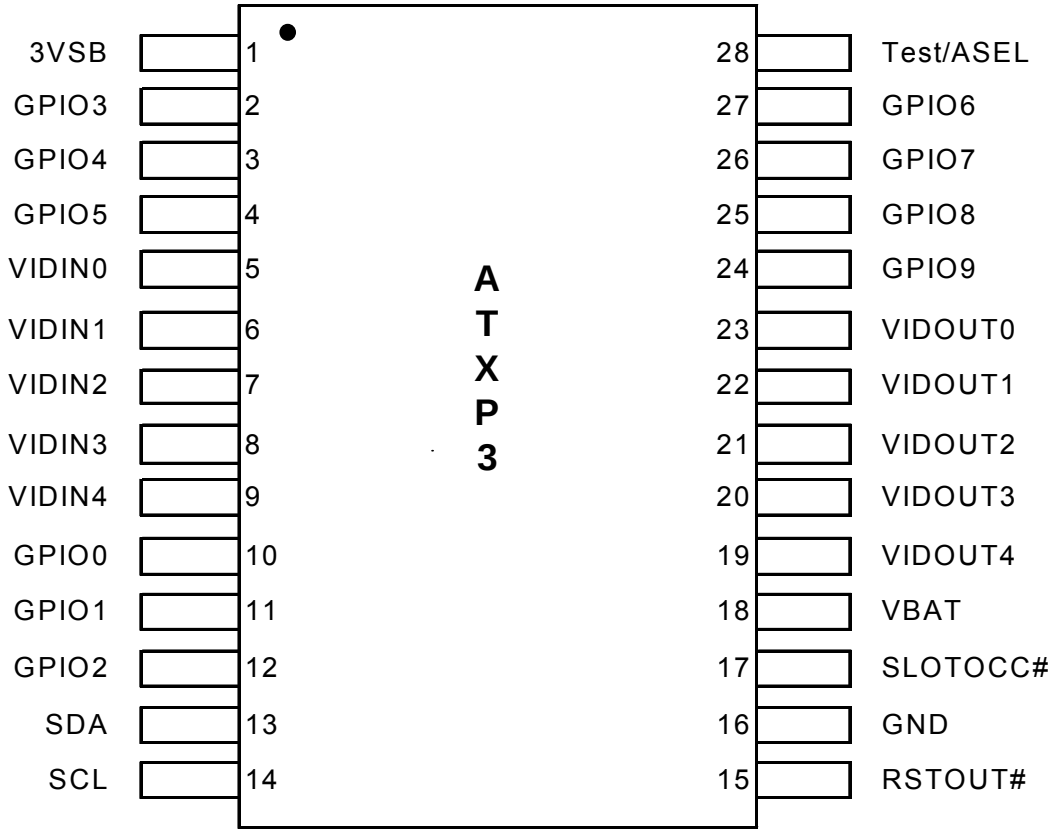


Figure 1. ATXP3 Pin Diagram (Top View)

※ **Ordering Information**

ATXP3- Commercial Standard

ATXP3G- Green Device with Commercial Standard

4. Pin Description

I/O Type Description

IN_{tx} ---- Special level input.
IN_{t} ---- TTL level input.
IN_{ts} ---- TTL level input with Schmitt-tigger.
OD_{12} ---- Open-drain with 12mA sink current.
O_{12} ---- Output buffer with 12mA drive/sink current
I/OD_{12} ---- TTL level bi-directional pin, and open-drain output with 12mA sink current.
I/O_{12} ---- TTL level bi-directional pin, and output with 12mA drive/sink current.
$I/O_{12\text{-}10k\text{-}up}$ ---- TTL level bi-directional pin, and output with 12mA drive/sink current and 10K ohm pull-up resistor.

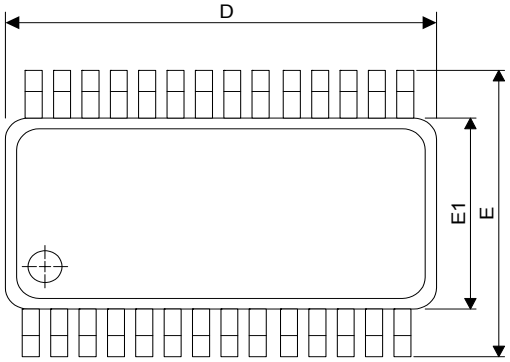
Pin No.	Pin name	I/O Type	Function
1	3VSB	POWER	Power Pin
2	GPIO3	I/O_{12}	General Purpose I/O Pin
3	GPIO4	I/O_{12}	General Purpose I/O Pin
4	GPIO5	I/O_{12}	General Purpose I/O Pin
5	VIDIN0	IN_{tx}	Receive VID0 Signal from CPU
6	VIDIN1	IN_{tx}	Receive VID1 Signal from CPU
7	VIDIN2	IN_{tx}	Receive VID2 Signal from CPU
8	VIDIN3	IN_{tx}	Receive VID3 Signal from CPU
9	VIDIN4	IN_{tx}	Receive VID4 Signal from CPU
10	GPIO0	I/O_{12}	General Purpose I/O Pin
11	GPIO1	I/O_{12}	General Purpose I/O Pin
12	GPIO2	I/O_{12}	General Purpose I/O Pin
13	SDA	I/OD_{12}	SMB Data Signal
14	SCL	IN_{ts}	SMB Clock Signal
15	RSTOUT#	OD_{12}	
16	GND		GROUND Pin
17	SLOTOCC#	IN_{ts}	Receive SLOTOCC# From CPU
18	VBAT		Power Pin
19	VIDOUT4	OD_{12}	VID4 Signal Output Pin to PWM
20	VIDOUT3	OD_{12}	VID3 Signal Output Pin to PWM
21	VIDOUT2	OD_{12}	VID2 Signal Output Pin to PWM
22	VIDOUT1	OD_{12}	VID1 Signal Output Pin to PWM
23	VIDOUT0	OD_{12}	VID0 Signal Output Pin to PWM
24	GPIO9	I/O_{12}	General Purpose I/O Pin
25	GPIO8	I/O_{12}	General Purpose I/O Pin

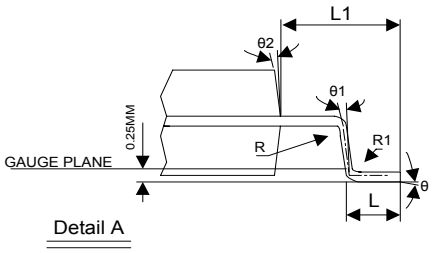
26	GPIO7	I/O12	General Purpose I/O Pin
27	GPIO6	I/O12	General Purpose I/O Pin
28	Test/ASEL	POWER	Power Pin

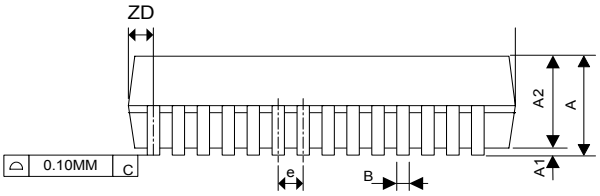
Table1. Pin Description Table

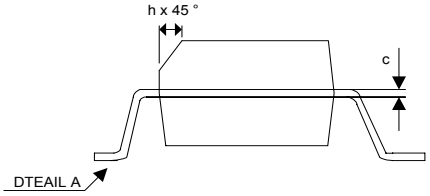
5. Package Information

SSOP-28 Outline Dimension









Symbol	Dimension in mm			Dimension in inch		
	Min	Nom	Max	Min	Nom	Max
A	1.35	1.63	1.75	0.053	0.064	0.069
A1	0.10	0.15	0.25	0.004	0.006	0.010
A2			0.50			0.059
B	0.20		0.30	0.008		0.012
c	0.18		0.25	0.007		0.010
e	0.635 BASIC			0.025 BASIC		
D	9.80	9.91	10.01	0.386	0.390	0.394
E	5.79	5.99	6.20	0.228	0.236	0.244
E1	3.81	3.91	3.99	0.150	0.154	0.157
L	0.41	0.635	1.27	0.016	0.025	0.050
H	0.25		0.50	0.010		0.020
ZD	0.838 REF			0.033 REF		
R1	0.20		0.33	0.008		0.013
R	0.20			0.008		
θ	0°		8°	0°		8°
θ 1	0°			0°		
θ 2	5°	10°	15°	5°	10°	15°
JEDEC	MO-137 (AF)					

Technology Corporation

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