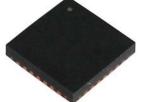


PenMount 6000 touch screen controller is the best performance touch screen controller, it is designed to have PnP features to meet the new systems trend. It is also a very good performance of RS-232 and USB interface on the touch screen.

PenMount 6000 has been designed for those who may like and all-in-one solution with A/D converter built-in to make the total printed circuit board denser.



# PenMount 6000 Specifications

### **RoHS Compliance**

Touch Screen:	4, 5 , 8-wire				
Package:	28-pin QFN				
Communications:	RS-232 19200 / 9600 baud rate				
	USB Full-speed, 12Mbps				
Feature:	<ul> <li>High-speed pipelined 8051-compatible microcontroller core (up to 25MIPS)</li> </ul>				
	- ADC with analog multiplexer				
	- On-chip Voltage Reference and Temperature Sensor				
	- On-chip Voltage Comparators				
	- 12 MHz internal oscillator				
	- On-chip FLASH memory				
	- USB, UART interfaces implemented in hardware				
Sample Rate	160 points per second (minimal)				
Resolution	2048x2048				
Resistance Range :	50~1.3K ohm				
Operating Voltage:	+3.3V ~ +5V DC ± 5%				
Operating Temperature:	-40° C to +85° C (-104° F to +185° F)				
Storage Temperature:	-65° C to +150° C (-149° F to +302° F)				
Power Consumption	Standby Mode: 13.4 mA; Active Mode: 21.5 mA				
(Base on PM6300 board)	(VCC=+5V, Top sheet Panel Resistance: 365 ohm ;				
	Bottom sheet Panel Resistance: 660 ohm)				
	Note. Actual current will be different by touch panel's resistance.				

Website: <a href="http://www.penmount.com">http://www.penmount.com</a>
E-mail: <a href="mailto:penmount@seed.net.tw">penmount@seed.net.tw</a>



# **Driver Software**

DOS( for RS-232 only ),
Windows 2000/ XP/ XPE/ 2003/ 2008/ Vista and 7
WinCE 4.2/ 5.0/ 6.0 (for X86, Armv4, Armv4i, MIPS, SH3, SH4 Platform),
Linux OS (kernel 2.6 and X-Window mode)

QNX6.2/6.3/6.4/6.5

# **Packaging Information**

The following diagram depicts the pinout of chip:

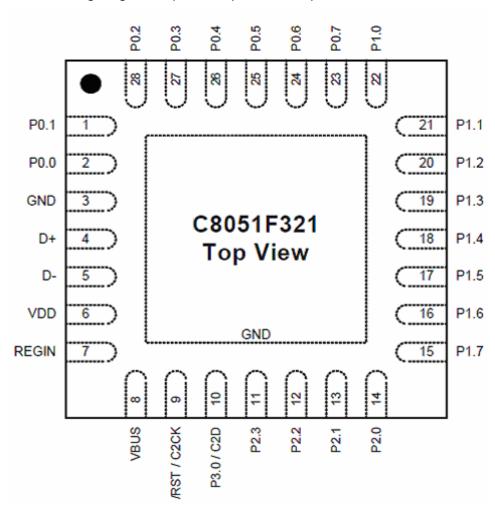


Fig. 1: QFN-28 Pinout Diagram (Top View)

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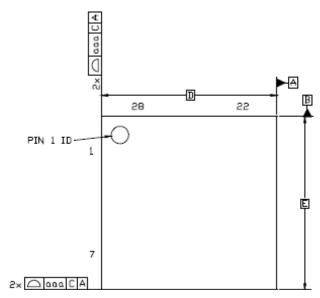


Fig. 2: QFN-28 Package Drawings - Top View

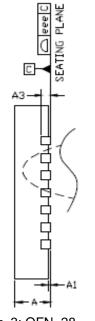


Fig. 3: QFN-28
Package Drawings Side View

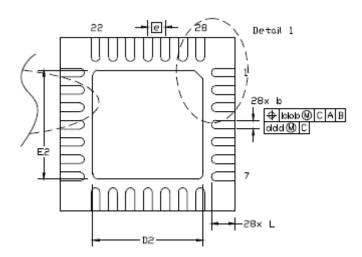


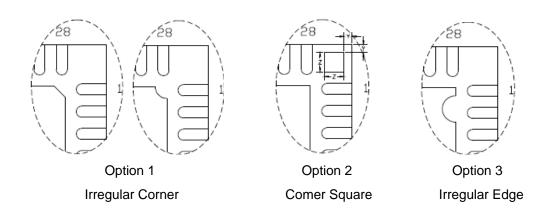
Fig. 4: QFN-28 Package Drawings - Bottom View

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# Detail 1 Pin – 1 Identifier



Detail 2
Perimeter Lead Form

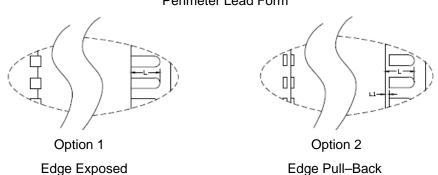


Fig. 5 QFN-28 Package Drawing

Dimension	Min	Тур	Max
A	0.80	0.90	1.00
A1	0.00	0.02	0.05
A3	0.25 REF		
b	0.18	0.23	0.30
D	5.00 BSC.		
D2	2.90	3.15	3.35
е	0.50 BSC.		
E	5.00 BSC.		
E2	2.90	3.15	3.35

Dimension	Min	Тур	Max	
L	0.35	0.55	0.65	
L1	0.00	_	0.15	
aaa	0.15			
bbb	0.10			
ddd	0.05			
eee	0.08			
Z	0.44			
Y	0.18			

### Notes:

- 1. All dimensions shown are in millimeters (mm) unless otherwise noted.
- 2. Dimensioning and Tolerancing per ANSI Y14.5M-1994.
- This drawing conforms to the JEDEC Solid State Outline MO-220, variation VHHD except for custom features D2, E2, Z, Y, and L which are toleranced per supplier designation.
- Recommended card reflow profile is per the JEDEC/IPC J-STD-020 specification for Small Body Components.

Table 1 QFN-28 Package Dimensions

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