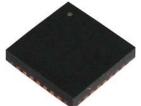


PenMount 6000 touch screen controller is the best performing touch screen controller, it is designed to have PnP features to meet the new systems trend. It is also a very good performance of RS-232 and USB interface on the touch screen.

PenMount 6000 has been designed for those who may like 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:	- High-speed pipelined 8051-compatible microcontroller core (up to		
	25MIPS)		
	- 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		
	- Firmware field update support with USB & RS232 interface.		
	(Important Note : Need Firmware 6000.8.0.0 or later)		
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: http://www.penmount.com E-mail: penmount@seed.net.tw



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:

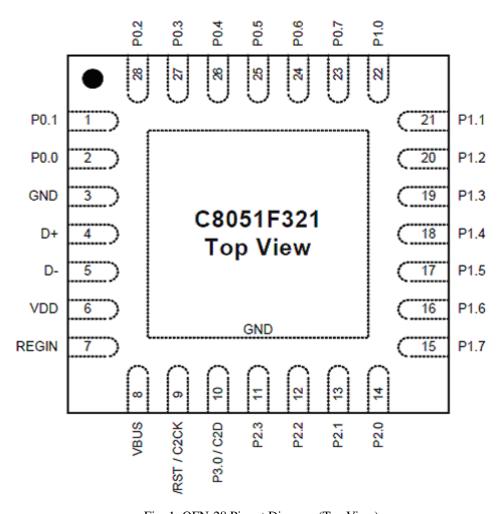


Fig. 1: QFN-28 Pinout Diagram (Top View)



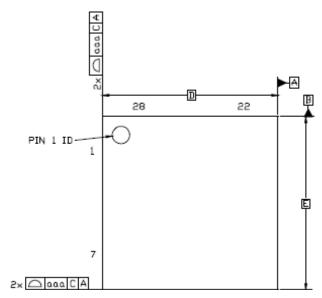


Fig. 2: QFN-28 Package Drawings - Top View

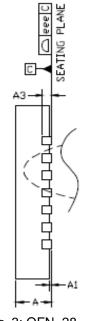


Fig. 3: QFN-28 Package Drawings -Side View

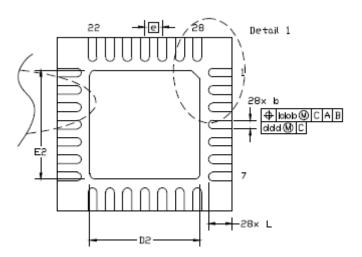
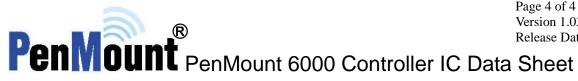
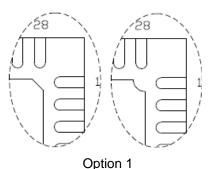


Fig. 4: QFN-28 Package Drawings - Bottom View

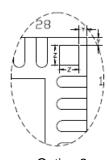
Website: http://www.penmount.com E-mail: penmount@seed.net.tw



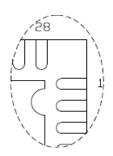
Detail 1 Pin - 1 Identifier



Irregular Corner



Option 2 Comer Square

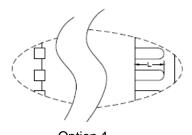


Option 3

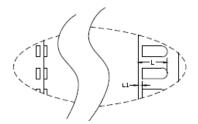
Irregular Edge

Detail 2

Perimeter Lead Form



Option 1



Option 2

Edge Exposed

Edge Pull-Back

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.
- 3. 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.
- 4. 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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