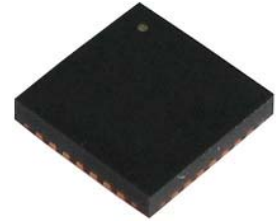


# PenMount 6000 Touch Screen Controller IC

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 10-bit A/D converter built-in to make the total printed circuit board denser, circuit diagram also designed for 12-bit ADC for optional.



## Electrical Specifications

- Touch Screen: For 4-, 5-, 8-wire analog resistive type
- Package: 28pin - QFN
- Communications: RS232 19200 / 9600 baud rate; USB full speed, 12MHz
- Features:
  - High-speed pipelined 8051-compatible microcontroller core (up to 25MIPS)
  - True 10-bit, 17-channel single-ended/differential ADC, analog multiplexer
  - On-chip Voltage Reference and Temperature Sensor
  - On-chip Voltage Comparators
  - On-chip Power-On Reset, VDD Monitor, and Missing Clock Detector
  - On-chip FLASH memory
  - USB, UART, SPI interfaces implemented in hardware
  - Programmable Counter / Timer Array / compare modules / Watchdog Timer
  - On-chip Power-On Reset, VDD Monitor, and Missing Clock Detector
- Sample rate: Maximal 200 points / second
- Calibration data: Calibration data saved into Chip and also into register file
- Resistance range: 50 – 1300 Ohm
- Resolution: 2048 x 2048 (up to 4096 x 4096 optional)
- Operating Voltage: +5V DC  $\pm$  5%
- Operating Temperature: -40° C to +85° C
- Storage Temperature: -65° C to +150° C

*Changes that contribute to technical improvement are subject to alternations*

				2007	Datum	Name	<b>Touch Controller Chip                  Combo, RS232 / USB                  4-, 5-, 8-wire                  SPEZIFICATIONS                  PenMount DMC6000</b> Manufactured by Apex Material Technology Corp.
				Bearb.	05.04.	Maurer	
				Gepr.	05.04.	Maurer	
				Vert.			
				EDV-Datasheet			
				don't change manually			
				 ELECTRONIC COMPONENTS			<b>H 1070,0049</b> page 1 of 2    Index:
Zu	Änd.	Datum	Name	D 79346 Eendingen			

## Driver Software

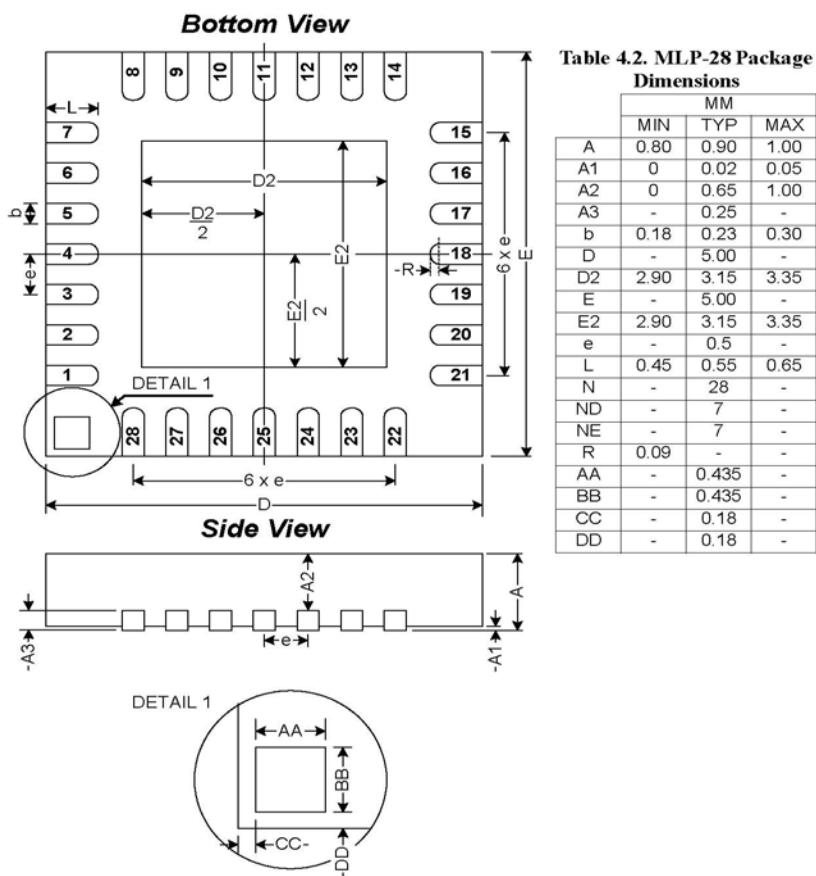
[查询"10700049"供应商](#)

Windows 2000/XPE/2003 and newest released version, Windows XP (WHQL),  
WinCE 4.2/5.0 (for X86, Armv4, Armv4i, MIPS, SH3, SH4 Platform),  
Linux OS (supported X-Windows mode and up to kernel 2.6)


Actual driver overview and download: <http://www.amtouch.com.tw/downloads/drivers.htm>  
[http://www.penmount.com.tw/down\\_2\\_1.php](http://www.penmount.com.tw/down_2_1.php)

## Packaging Information:

Figure 4.4. MLP-28 Package Drawing



Changes that contribute to technical improvement are subject to alternations

			2007	Datum	Name
			Bearb.	05.04.	Maurer
			Gepr.	05.04.	Maurer
			Vert.		
			EDV-Datasheet		
			don't change manually		
			 ELECTRONIC COMPONENTS		
Zu	Änd.	Datum	Name		

**Touch Controller Chip**  
**Combo, RS232 / USB**  
**4-, 5-, 8-wire**  
 SPEZIFIKATIONS  
**PenMount DMC6000**  
 Manufactured by Apex Material Technology Corp.


  
ELECTRONIC COMPONENTS

**H 1070,0049**

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