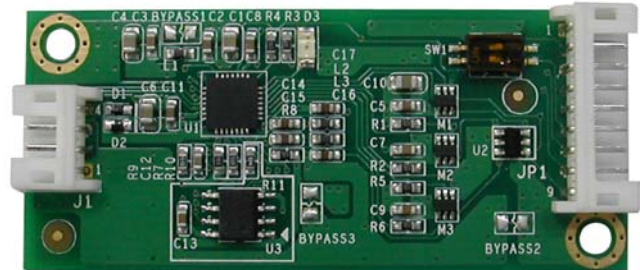


PenMount 6300 USB Interface Control Board


PenMount 6300 USB control board is a touch screen control board designed for USB interface and specific for 4, 5, 8-wire touch screens. It is designed with USB interface features with multiple devices supporting function. PenMount 6300 control board using PenMount 6000 controller that 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. There are two connectors on this board, one connector is for 4, 5, 8-wire touch screen cable (optional), and another is for 4-pin USB A type cable.



Electrical Specifications

Touch Screen:	For 4-, 5-, 8-wire analog resistive type
Communications:	USB full speed, 12MHz
Touch Screen Controller:	PenMount 6000 microcontroller
Resolution:	2048x2048 (up to 4096 x 4096)
Size:	60x26 mm, two 3mm Ø screw holes
Portrait:	Support 90° 180° and 270° screen rotation
Diagnostic:	LED on board
Calibration data:	data saved into Chip and also into register file
Operating Voltage	+5V DC
Storage Temperature Range	-40°C ~ 85°C
Operating Temperature	-20°C ~ 70°C

Changes that contribute to technical improvement are subject to alternations

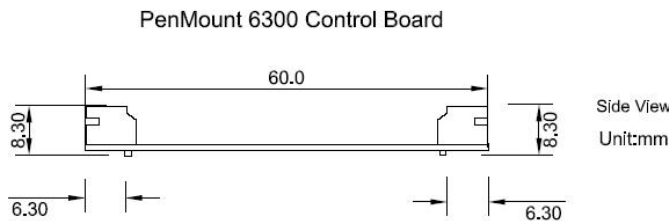
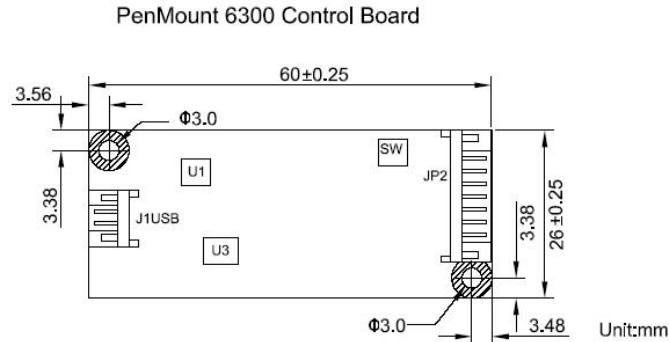
				2007	Datum	Name	Touch Controller Board USB 4-, 5-, 8-wire SPEZIFICATIONS PenMount 6300 USB Manufactured by Apex Material Technology Corp.
				Bearb.	05.04.	Maurer	
				Gepr.	05.04.	Maurer	
				Vert.			
				EDV-Datasheet			
				don't change manually			
							H 1070,0047.01-.04 page 1 of 3 Index:
Zu	Änd.	Datum	Name	D 79346 Endingen			

Driver Software

Windows 2000/XPE/2003 and newest version, Windows XP (WHQL)
WinCE 4.2/5.0 (for X86, Armv4, Armv4i, MIPS, SH3, SH4 Platform),

Actual driver overview and download: <http://www.amtouch.com.tw/downloads/drivers.htm>
http://www.penmount.com.tw/down_2_1.php

Mechanical Size



DIP Switch & Connector Definition

DIP Switch and Pin definitions for the two connectors on the PenMount 6300 control board:

DIP Switch Setting

Switch	Definition	ON	OFF
S1	Touch screen type	4-, 8-wire	5-wire
S2	Reserved	Reserved	Reserved

Changes that contribute to technical improvement are subject to alternations

				2007	Datum	Name	<p>Touch Controller Board USB 4-, 5-, 8-wire SPEZIFICATIONS PenMount 6300 USB Manufactured by Apex Material Technology Corp.</p>
				Bearb.	05.04.	Maurer	
				Gepr.	05.04.	Maurer	
				Vert.			
				EDV-Datasheet			<p>Manufactured by Apex Material Technology Corp.</p>
				don't change manually			
							<p>H 1070,0047.01-.04</p>
				D 79346 Endingen			
Zu	Änd.	Datum	Name				<p>page 2 of 3 Index:</p>

Connector Pin Definitions for Touch Screen

Pin Definition / wires	4-wire touch screen	5-wire touch screen	8-wire touch screen
PIN 1	Ground	Ground	Ground
PIN 2	Top	UL	Top
PIN 3	Bottom	UR	Bottom
PIN 4	Left	LL	Left
PIN 5	Right	LR	Right
PIN 6	---	Sense	Top Sense
PIN 7	---	---	Bottom Sense
PIN 8	---	---	Left Sense
PIN 9	---	---	Right Sense


Connector Pin Definitions for USB

USB Interface				
Pin #	PIN 1	PIN 2	PIN 3	PIN 4
Definition	Ground	D+	D-	Vcc

Item Numbers

1070. 0047.01	cable set 4-wire ZIF	USB cable 1500mm
1070. 0047.02	cable set 4-wire AMPC	USB cable 1500mm
1070. 0047.03	cable set 8-wire AMPC	USB cable 1500mm
1070. 0047.04	cable set 5-wire AMPC	USB cable 1500mm

Changes that contribute to technical improvement are subject to alternations

				2007	Datum	Name	<p align="center">Touch Controller Board USB 4-, 5-, 8-wire SPEZIFIKATIONS PenMount 6300 USB Manufactured by Apex Material Technology Corp.</p>
				Bearb.	05.04.	Maurer	
				Gepr.	05.04.	Maurer	
				Vert.			
				EDV-Datasheet			<p align="center">H 1070,0047.01-.04</p>
				don't change manually			
							<p align="center">page 3 of 3 Index:</p>
Zu	Änd.	Datum	Name	D 79346 Endingen			