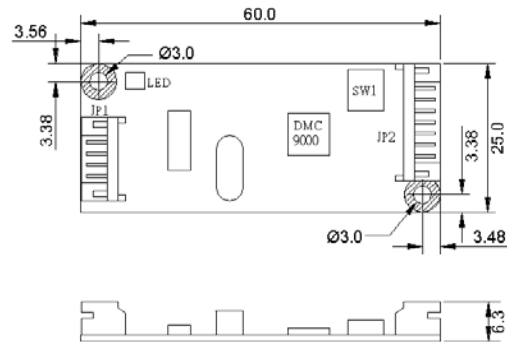# PenMount 9036 Touch Controller Board

PenMount 9036 control board is a powerful RS-232 touch screen control board to support 4-, 5-, and 8-wire touch screens by executing the same drivers as all PenMount series control board and ICs. PenMount 9036 is good for all kinds of resistive touch screens, user could put PenMount 9036 control board in different systems space and connected to system's serial interface.
PenMount 9036 is selected the different type touch screen by dip switch, also with automatic pin adjustment by software drivers.

PenMount 9036

Electrical Specifications:

Touch Screen:	For 4-, 5- & 8-wire analog resistive type
Touch Screen Controller	DMC9000
Communications:	RS-232
Baud Rate:	19200 and 9600 baud rate selection
Resolution:	2048 x 2048 (10-bit A/D converter inside)
Mode selection:	PnP or non-PnP
Power Input:	5V to 12V DC
Power Consumption:	12V: 23mA+ i where (i = v/touch screen sheet R) 5V: 20mA+ i where (i = v/touch screen sheet R)
Board Size:	60 x 25 mm
Portrait:	Support 90° to 270° screen rotation
Static Protection:	ESD device optional
Storage/Working Temperature	Storage -40°C - +85°, Working: 0°C - +70°C
Others:	Touch activate indication LED on board, Advanced calibration, Multi-Monitor Display, Right button, Linearity grid Noise filtering, Auto pin assignment, Beep sound

Changes that contribute to technical improvement are subject to alternations

				2003	Date	Name	
				Bearb.	30.07.	Maurer	**Touch Screen - Control Board** *RS-232* *4-, 5-, 8- wire*
				Gepr.	30.07.	Maurer	
				Vert.			
				EDV-Datasheet			SPECIFICATIONS
							PenMount 9036
				don't change manually			Manufactured by Apex Material Technology Corp.

Driver Software

DOS, Windows 3.11, Windows 95/98/Me, Windows NT/2000/XP, QNX, Linux,
Windows CE (for both X86 and SA CPU)
Windows CE.Net (X86, SA CPU & Xscale)

Actual driver overview and download: http://www.amtouch.com.tw/downloads/drivers.htm

Connector Definition

JP1:

- Pin 1 and P2: pin 1: 'Ground', pin 2: for 5V to 12V DC power
- Pin 3 to Pin 6: PIN3: RTS PIN4: TXD PIN5: RXD PIN6: Ground

JP2: Touch Screen Lines:

	8-Wire	4-Wire	5-Wire
PIN1	Right Sense	N/A	N/A
PIN2	Left Sense	N/A	N/A
PIN3	Bottom Sense	N/A	N/A
PIN4	Top Sense	N/A	Sense
PIN5	Right Excite	Right	LR
PIN6	Left Excite	Left	LL
PIN7	Bottom Excite	Bottom	UR
PIN8	Top Excite	Top	UL
PIN9	Ground	Ground	Ground

SW1:

S1:	Baud rate adjustment, 'OFF' is for 19600 bps, 'ON' is for 9600 bps
S2 :	PnP enable or disable, 'OFF' is enable, 'OFF' is disable
S3:	set at 'ON' & S4: set at 'OFF' is for 5- wire touch screen
S3:	set at 'OFF' & S4: set at 'ON' is for 4 and 8-wire touch screen

1070. 0038.01	with cable set 4-wire ZIF,	9pin D-Sub cable 450mm
1070. 0038.02	with cable set 4-wire AMPC,	9pin D-Sub cable 450mm
1070. 0038.03	with cable set 8-wire AMPC,	9pin D-Sub cable 450mm
1070. 0038.04	with cable set 5-wire AMPC,	9pin D-Sub cable 450mm

Changes that contribute to technical improvement are subject to alternations

				2003	Date	Name	
				Bearb.	30.07.	Maurer	**Touch Screen - Control Board** *RS-232*
				Gepr.	30.07.	Maurer	*4-, 5-, 8- wire*
				Vert.			SPECIFICATIONS
				EDV-Datasheet			PenMount 9036
				don't change manually			Manufactured by Apex Material Technology Corp.
							⒮SCHURTER
a	2002057	24.10.2005	Maurer				ELECTRONIC COMPONENTS H 1070,0038.01-.04
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