

PenMount 9036BH Touch screen Control Board

RoHS compliance (SGS test report number: [CS/2005/B0237](#))

PenMount 9036BH 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 9036BH is selected the different type touch screen by dip switch, also with automatic pin adjustment by software drivers. There are two connectors on board, the first is for the power and RS-232 interface, power line is allowed to have 5V to 12V DC input (4/8-wire use for 5~12V, 5-wire only use for 5V), RS-232 interface cable has 9-pin D-sub connector, this connector is for 4-wire, 5-wire and 8-wire different touch screens.



Electrical Specifications:

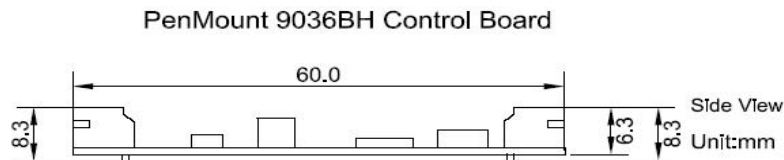
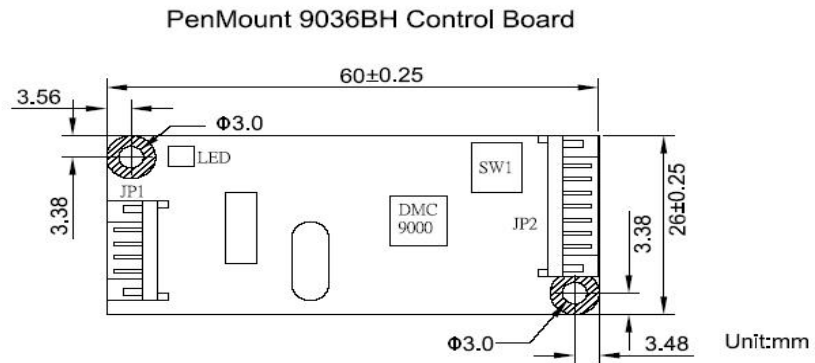
Touch Screen:	For 4-, 5- & 8-wire analog resistive type
Touch Screen Controller	DMC9000 (10-bit A/D converter inside)
Communications:	RS-232
Baud Rate:	19200 and 9600 baud rate selection
Resolution:	2048 x 2048
Mode selection:	PnP or non-PnP
Power Input:	4/8-wire touch panel use for 5V to 12V DC 5-wire touch panel only use for 5V DC
Power Consumption:	12V: 23mA+ i where (i = v/touch screen sheet R) 5V: 20mA+ i where (i = v/touch screen sheet R)
Mechanical Size:	60 (L) x 26 (W) x 8.3 (H) mm ; two 3φscrew holes
Portrait:	Support 90° to 270° screen rotation
Others:	Touch activate indication LED on board

Apex Material Technology Corp.

www.amtouch.com.tw email: amt1@amtouch.com.tw

Tel: 886-2-26648138 Fax: 886-2-26628936

Mechanical Size



DIP Switch & Connector Definition

DIP Switch and Pin definitions for the two connectors on the PenMount 9036BH control board follow:

DIP Switch Setting

Switch	Definition	ON	OFF
S1	Baud Rate Adjustment	9600	19200
S2	PnP enable or disable	Disable	Enable
S3	Touch screen type	5-wire	4-, 8-wire
S4	Touch screen type	4-, 8-wire	5-wire

Apex Material Technology Corp.

www.amtouch.com.tw email: amt1@amtouch.com.tw

Tel: 886-2-26648138 Fax: 886-2-26628936



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 Power and RS-232

	Power Lines		RS-232 Interface			
Pin #	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6
Definition	Ground	5V~12V power	RTS	TXD	RXD	Ground

Driver Software

DOS, Windows 3.11, Windows 95/98/Me/2000/2003, Windows XP (WHQL), Linux (up to kernel 2.6), QNX 6.2/6.3, Windows CE 4.1 / 4.2 / 5.0 (for X86, Armv4, Armv4i platform); Solaris 10

Apex Material Technology Corp.

www.amtouch.com.tw email: amt1@amtouch.com.tw
 Tel: 886-2-26648138 Fax: 886-2-26628936