PenMount® PenMount 9026BH Control Board Data Sheet

## PenMount 9026BH Touch screen Control Board

### RoHS compliance

PenMount 9026BH control board is a very small foot print touch screen control board, with the same functions as PenMount 9084, PenMount 9026BH is different in the mechanical size and the board height in order to fit different systems space.

PenMount 9026BH is also RS-232 interface touch screen control board. There are two wires on board, the first is for the power and RS-232 interface, power line is allowed to have 5V to 12V DC input, RS-232 interface cable has 9-pin D-sub connector. The second cable is for 4-wire or 8-wire touch screen.
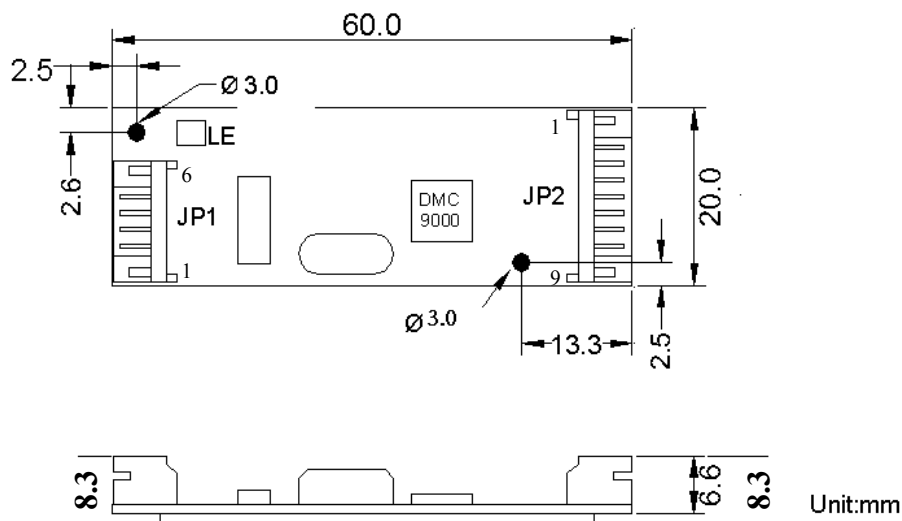
### Electrical Specifications:

| | |
|---|---|
| Touch Screen | For 4- & 8- wire analog resistive type |
| Communications | RS-232 interface |
| Baud Rate | 19200 baud rate fixed, N81, PnP mode |
| Touch Screen Controller | PenMount 9000 microcontroller |
| Resistance Range | 50~1.3K Ω |
| Resolution | 2048x2048 |
| Diagnostic | LED on board |
| Electrostatic Discharge (ESD) | Air Discharge 15KV<br>Contact Discharge 8KV |
| Operating Voltage | 5V to 12V DC |
| Operating Temperature | 0℃ ~ 50 ℃ |
| Size | 60 (L) x 20 (W) x 8.3 (H) mm |
| Power Consumption | Standby Mode : 15 mA ; Active Mode : 26.5 mA<br>( VCC=+5V, Top sheet Panel Resistance: 365 ohm ; Bottom sheet Panel Resistance: 660 ohm )<br>Note. Actual current will be different by touch panel's resistance. |

### Driver Software

DOS, Windows 3.1/ NT4.0/ 95/ 98/ Me/ 2000/ XP/ 2003/ 2008/ Vista/ 7,
Linux (up to kernel 2.6), QNX 6.2/ 6.3/ 6.4/ 6.5,
Windows CE 4.2/ 5.0/ 6.0 (for X86, Armv4, Armv4i platform);
Solaris 10

Website: http://www.penmount.com

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## Mechanical Size



## Connector Definition

Pin definitions for the two connectors on the PenMount 9026BH control board follow:

### Connector Pin Definitions for Touch Screen

| Pin definition / wires | 4-wire touch screen | 8-wire touch screen |
|---|---|---|
| PIN 9 | N/A | Right Sense |
| PIN 8 | N/A | Left Sense |
| PIN 7 | N/A | Bottom Sense |
| PIN 6 | N/A | Top Sense |
| PIN 5 | Right | Right |
| PIN 4 | Left | Left |
| PIN 3 | Bottom | Bottom |
| PIN 2 | Top | Top |
| PIN 1 | Ground | Ground |

### 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 |

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