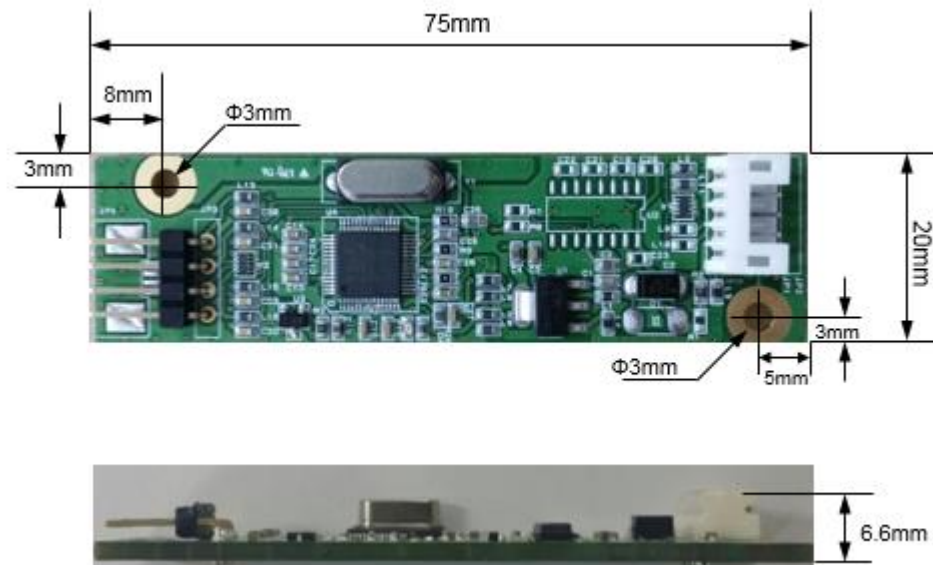# HT-EBU-3

## 1. Features

Hantouch launched touch control board to meet the latest Restriction of Hazardous Substances (RoHS) Directive. The HT-******* model will be able to use ESD improvement the USB port is available in product.

This touch panel controller provides the optimistic performance of your analog resistive touch panels for 4-wire models. It communicates with PC system directly through USB connector. You can see how superior the design is in sensitivity, accuracy and friendly operation.

The touch panel driver emulates mouse left and right button function and supports various operation system.

-. 4-Wire resistive models.
-. Support utility program.
-. Support various operation systems.
-. Support USB port.

# HT-EBU-3

## 2. OS Support

| OS | Version | Interface |
|---|---|---|
| **Windows** | Windows Vista, XP/2000, 9x/ME, 7, 8<br><br>Windows CE 2.12 / 3.0 / .net / 5.0 / 6.0<br><br>Windows Embedded<br><br>Windows XP Tablet PC edition Windows Vista | USB |
| **Linux** | Mandrake (Mandrake 9.1 / 9.2 / 10, Mandriva 2005 / 2006)<br><br>Red Hat (7.3 / 8.0 / 9.0)<br><br>Fedora (Core I / II / III / IV / V / VI)<br><br>Yellow Dog (3.X)<br><br>SuSE (9.2 / 9.3 / 10 / 10.1)<br><br>Ubuntu (5.1 / 6.06)<br><br>Debian (3.1, Kernel 2.4.x / 2.6.x)<br><br>Android | USB |
| **Mac** | Mac OS, Mac OS X (IBM, Intel CPU) | USB Only |

## 3. Specification

| *HT*-******* *USB PORT (JP1)* | |
|---|---|
| Circuit Board Dimension | 20mm x 75mm (0.79inches x 2.95inches) |
| Power Requirement | D.C.+5V (100mA typical, 50mV peak to peak maximum ripple and noise) |
| Operating Temperature | 0 to 50 ℃ |
| Storage Temperature | -40 to 80 ℃ |
| Relative Humidity | 95% at 60 ℃ |
| Interface | USB: 1.1 Full Speed |
| Protocol | USB: 1.1 Full Speed |
| Resolution | 2048×2048 resolution |
| Report rate | USB : Max. 200 points/sec |
| Response time | Max. 20 ms |
| Attached Cable | USB: 6' shielded cable with USB-A connector for USB |
| Regulatory Approvals | FCC-B, CE, Unaffected by EMI from other nearly CRTs And other display devices |
| EMI | Unaffected by environmental EMI |
| Panel resistance | 4 wire resistive model : 200 ~ 900 ohm |

# HT-EBU-3

## 4. Pin Assignment



Touch Panel (JP3)

USB Port (JP1)

( Picture2 : Port Position)



&lt;U2 Serial IC & related components are not necessary&gt;

( Picture3 : Parts Layout)

# HT-EBU-3
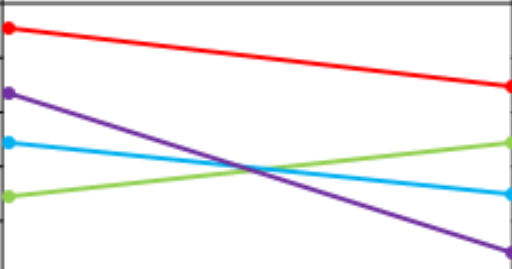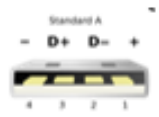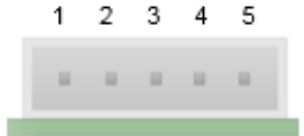
## 4-1. USB Port (JP1)

-. Connector : YEONHO 20010WR-05 (2.0mm Pitch, 5Pin, Angle)

-. Pin Number :

| Pin | Name | Description |
|-----|------|-------------|
| 1 | GND | USB GND |
| 2 | +5V | USB 5V |
| 3 | GND | USB GND |
| 4 | D+ | USB D+ |
| 5 | D- | USB D- |

-. Cable : USB A – YEONHO (20010HS)  Shield Cable

| USB-A | Wiring Diagram | YEONHO 20010HS Housing |
|-------|----------------|------------------------|
| 1 : +5V | | 1 :  Shield GND |
| 2 : D- | | 2 : +5V |
| 3 : D+ | | 3 : GND |
| 4 : GND | | 4 : D+ |
| | | 5 : D- |



**\<Out-side\>**

# HT-EBU-3

## 4-2. Touch Panel Port (JP3)

-. Connector : Pin Header 2.54mm Pitch, 4Pin, Angle

-. Pin Number :

| Pin | Name | Description |
|:---:|:---|:---|
| 1 | X+ | Touch Panel X+ |
| 2 | Y+ | Touch Panel Y+ |
| 3 | X- | Touch Panel X- |
| 4 | Y- | Touch Panel Y- |