



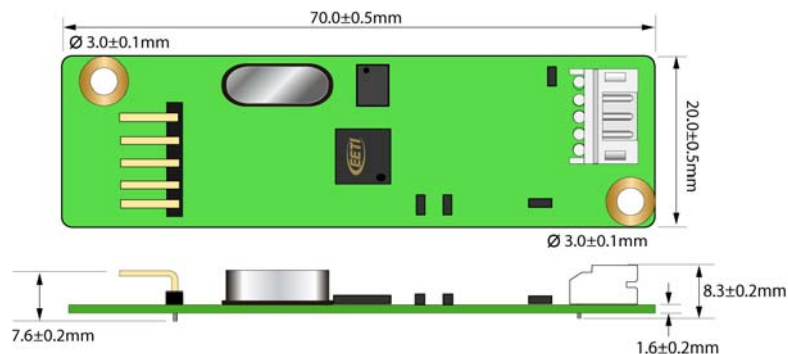
禾瑞亞科技股份有限公司  
eGalax\_eMPIA Technology Inc.

## 4 / 5-Wire USB Touch Panel Controller

eGalax\_eMPIA launched touch control board to meet latest Restriction of Hazardous Substances (RoHS) Directive. This touch panel controller provides the optimistic performance of your analog resistive touch panels for 4 or 5 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 operation systems as following.

| OS             | Version  | Interfaces                                |
|----------------|--|---|
| <b>Windows</b> | Windows Vista, XP/2000, 9x/ME<br>Windows CE 2.12/3.0/.net/5.0/6.0<br>Windows Embedded<br>Windows XP Tablet PC edition<br>Windows Vista<br>Windows 7  | RS232/USB/<br>PS2                         |
| <b>Windows</b> | Windows NT4  | RS232/PS2                                 |
| <b>Linux</b>   | Mandrake (Mandrake 9.1/9.2/10,<br>Mandriva 2005, Mandriva 2006),<br>Red Hat (7.3/8.0/9.0),<br>Fedora (Core I/II/III/IV/V/VI),<br>Yellow Dog (3.X) ,<br>SuSE (9.2/9.3/10/10.1),<br>Ubuntu (5.1/6.06),<br>Debian (3.1, Kernel 2.4.x/2.6.x) | RS232/USB/<br>PS2 (up to<br>Kernel 2.6.x) |
|                | Android 1.5 – Google<br>Moblin V2 - Intel  | RS232/USB                                 |
| <b>DOS</b>     | DOS  | RS232/PS2                                 |
| <b>Mac</b>     | Mac OS9, Mac OS X (IBM, intel CPU)   | USB                                       |
| <b>QNX</b>     | QNX RTOS v6.3  | RS232/USB                                 |

### Controller:



## ETP-RAP4502UPEG-02

### **Specifications:**

| <b>USB Type Controller</b> |   |
|----------------------------|---|
| Circuit Board Dimension    | 20mm x 70mm (0.79inches x 2.75inches)   |
| Power Requirements         | D.C.+5V (100mA typical,50mV peak to peak maximum ripple and noise)                  |
| Operating Temperature      | -25 to 80 °C  |
| Storage Temperature        | -55 to 150 °C   |
| Relative Humidity          | 95% at 60 °C, RH Non-condensing   |
| Interface                  | USB: 1.1 Full Speed   |
| Resolution                 | 2048×2048 resolution  |
| Report rate                | USB: Max. 200 points/sec  |
| Response time              | Max. 20 ms  |
| Attached Cable             | 180cm shielded cable with USB-A connector   |
| Regulatory Approvals       | FCC-B , CE, Unaffected by EMI from other nearby CRTs and other display devices CRTs |
| EMI                        | Unaffected by environmental EMI   |
| Panel resistance           | 4 wire resistive model: 200 ~ 900 ohm<br>5 wire resistive model: 50 ~ 200 ohm       |

### **Product Package:**

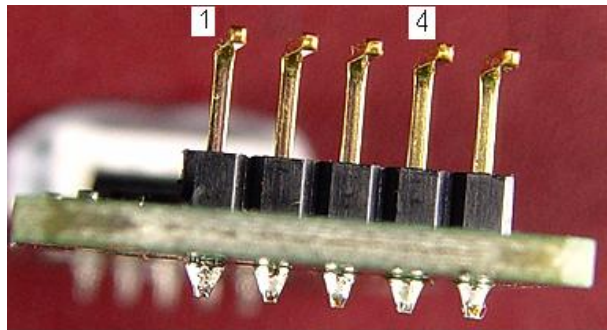
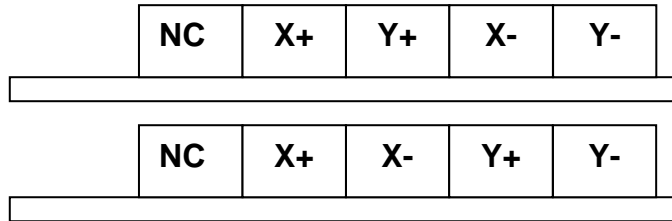
- (1) ETP-MB-RAP4502UPEG (4 / 5 wire USB control board)
- (2) ETP-CB-SXU00 (USB cable)
- (3) ETP-CB-4XN00 (4 pin Flat cable) or  
ETP-CB-5XN00 (5 pin Flat cable)

# ETP-RAP4502UPEG-02

## *Controller Panel Pin Assignment:*

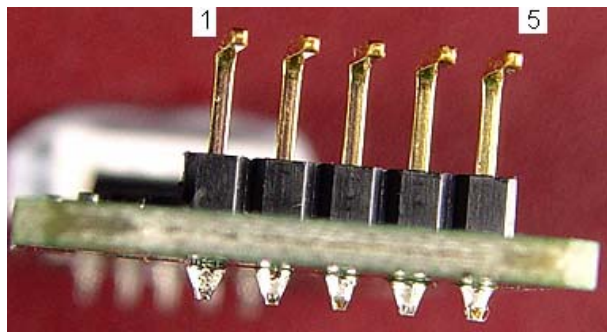
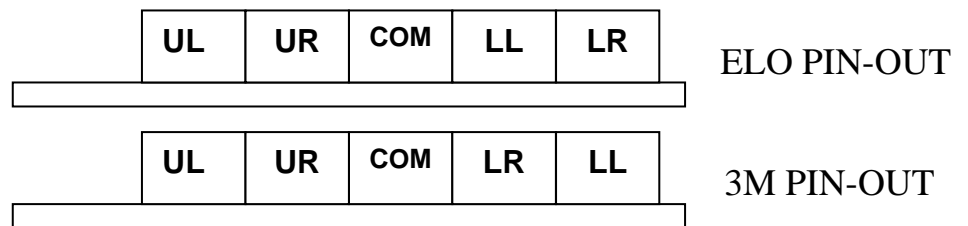
### For 4-Wire Resistive Touch Panel

Pin-Out as below figure is automatically detected



### For 5-Wire Resistive Touch Panel

ELO or 3M type Pin-Out is automatically detected



# ETP-RAP4502UPEG-02

## *Controller Wafer Pin Assignment:*

