

4W/8W USB and RS232 Combo Touch Panel controller



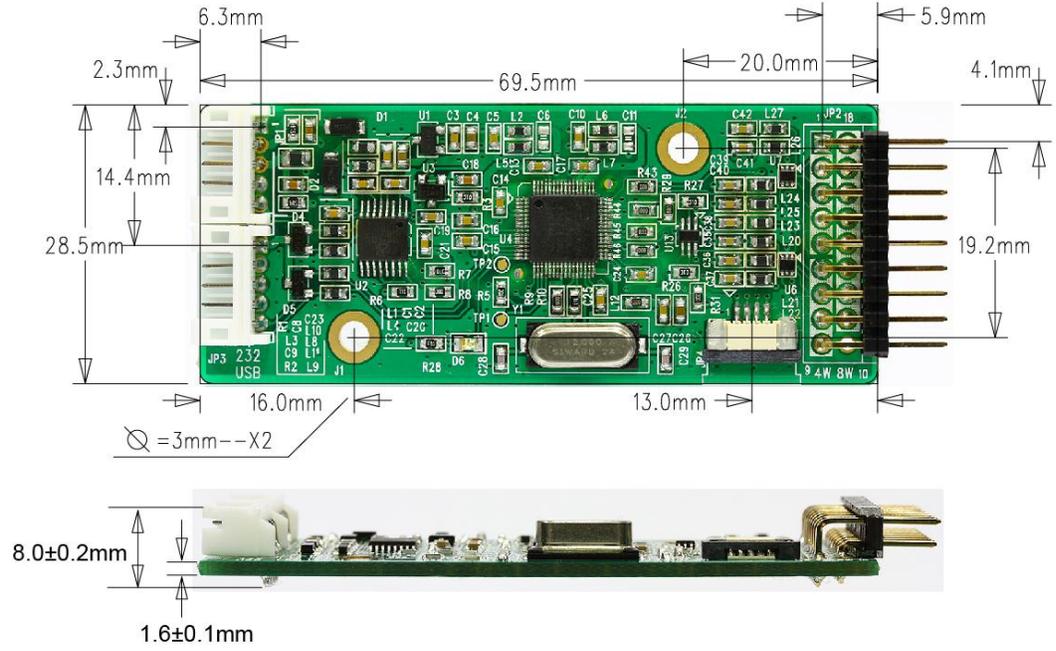
禾瑞亞科技股份有限公司
eGalax_eMPIA Technology Inc.

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 & 8 wire models. It communicates with PC system directly through USB and RS232 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
Windows	Windows 10, 8, 7, Vista, XP, 2000, ME, 98	RS232/USB
	Windows CE (up to 7.0)	
	Windows Embedded	
	Windows XP Tablet PC edition	
Windows	Windows NT4, 95	RS232
Linux	Supports Kernel 2.4.x / 2.6.x / 3.x with XFree86 4.x / xorg (up to X server 1.11.x). Supports most of the Linux distribution 32/64 bit versions, Including:CentOS, Debian, Fedora, Gentoo, Mandrake(Mandriva), Moblin(Meego), Red Hat, Ubuntu, Slackware, SuSE(openSuSE) etc.	RS232/USB
	Android (up to 4.x)	RS232/USB
DOS	DOS 6.22	RS232
Mac	Mac OS9, Mac OS X (Power PC, Intel CPU)	USB
QNX	QNX RTOS v6.3	RS232/USB

ETP-MB-MER4048CEBG-DAWAR

Controller:



ETP-MB-MER4048CEBG-DAWAR full Package includes:

- (1) ETP-MB-MER4048CEBG-DAWAR (one controller board)

ETP-MB-MER4048CEBG-DAWAR

Specification:

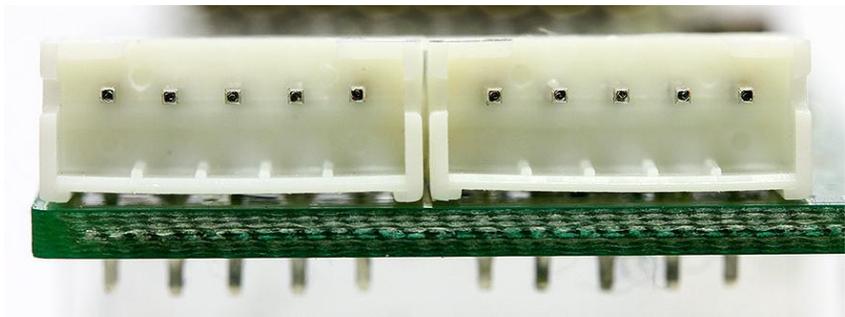
4wire and 8 Wire Type Controller

Circuit Board Dimension	20mm x 75mm (0.79inches x 2.95inches)
Power Requirements	D.C.+5V (100mA typical,50mV peak to peak maximum ripple and noise)
Operating Temperature	-25 to 85 °C
Storage Temperature	-25 to 85 °C
Relative Humidity	95% at 60 °C, RH Non-condensing
Interface	Bi-directional RS-232 serial communication USB: 1.1 Full Speed
Protocol	No parity,8 data bits,1 stop bit,9600 baud(N,8,1,9600)
Resolution	2048×2048 resolution
Report rate	RS232: Max. 180 points/sec USB: Max. 200 points/sec
Response time	Max. 20 ms
Attached Cable	RS232: 180cm shielded cable with 9-pin D-sub connector USB: 180cm shielded cable with USB-A connector
Regulatory Approvals	FCC-B , CE
EMI	Unaffected by environmental EMI
Panel resistance	4 & 8 wire resistive model: 200 ~ 900 ohm (Pin to pin on same layer, Touch Resistance under 3k ohm)
Green Product	RoHS Compliant
MTBF	200,000 hrs

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Controller board pin assignment:

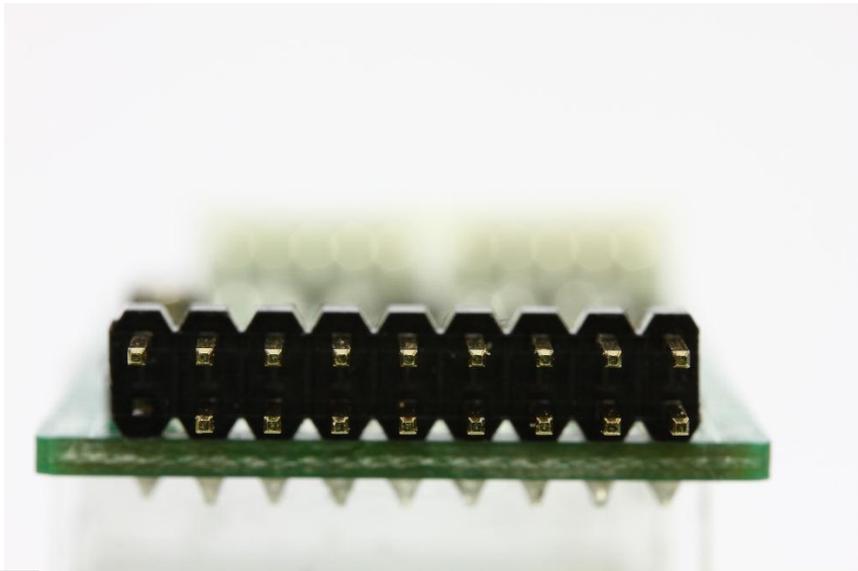
JP1 & JP3



G	V	G	Tx	Rx
RS232 (JP1)				

G	V	G	D+	D-
USB (JP3)				

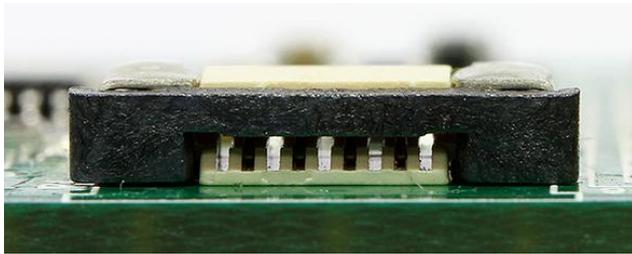
JP2



9	X+	Y+	X-	Y-	NC	NC	NC	NC	NC	1
	NC	X+	X+ Ref	Y+	Y+ Ref	X-	X- Ref	Y-	Y- Ref	
10										18

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JP4



1	X+	Y+	X-	Y-
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