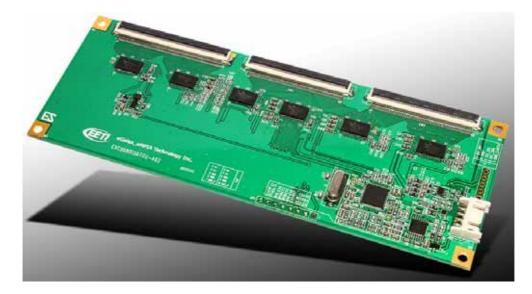


Projected Capacitive USB/RS232/I2C Touch Panel Controller

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 projected capacitive touch panels. It communicates with PC system directly through USB/UART/I2C 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 8(Need logo submission) Windows 7 Windows Vista, XP/2000, 9x/ME Windows CE 2.12/3.0/.net/5.0/6.0 Windows Embedded Windows XP Tablet PC edition	USB/RS232
Linux	Mandrake (Mandrake 9.1/9.2/10, Mandriva 2005, Mandriva 2006), Red Hat (7.3/8.0/9.0), Fedora (Core I/II/III/IV/V/VI), Yellow Dog (3.X), SuSE (9.2/9.3/10/10.1), Ubuntu (5.1/6.06), Debian (3.1, Kernel 2.4.x/2.6.x)	USB/RS232 (up to Kernel 2.6.x)
	Android 4.0 – Google Moblin V2/Meego - Intel	USB/RS232/I2C
Мас	Mac OS9, Mac OS X (IBM, intel CPU)	USB
QNX	QNX RTOS v6.3	USB/RS232

Controller:





Thickness:

Total thickness: 8.3mm ± 0.1mm (Including PCB: 1.6mm.USB/RS232 connector:5.1mm. Soldering pin:1.6 mm)

Specifications:

USB/RS232/I2C T	ype Controller
Circuit Board Dimension	55mm x 152mm
Input Voltage	3.5V~5.5V.Typical 5V.
Operating Temperature	-40 to 85
Storage Temperature	-40 to 90
Relative Humidity	95% at 60 , RH Non-condensing
Linearity(Note 1)	Line drawing accuracy : 1pt +/- 1mm offset /10mm Line drawing accuracy : 2pt +/- 2mm offset /10mm Touch (point) accuracy : 1pt +/- 2.5mm Touch (point) accuracy : 2pt +/- 5.0mm Refer to Windows 7 Logo regulation
Interface	USB: 1.1 Full Speed RS232: No parity,8 data bits,1 stop bit, baud rate 115200bps I2C:100K/400K Hz
Resolution	4096×4096 resolution
Power consumption(mA)	
Report rate(points/sec) (Note 2)	> 100 Hz
Response time	Max. 25 ms

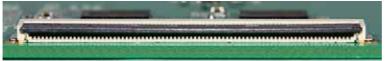
Note 1: Channel pitch should be 4.8mm- 6mm Note 2: Report rate will vary by channel number, cover thickness and other parameters

Product Package:

- (1) PCAP Controller Board(ETP-MB-EXC9680136THG-XXXX)
- (2) Y-Cable (ETP-CB-SXC00)
- (3) USB (ETP-CB-SXU00) or RS232 cable (ETP-CB-SXR00)

FPC Connector Pin Assignment:

CN1 Connector



20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	PIN
ТХ60	TX61	TX62	TX63	ТХ64	TX65	TX66	ТХ67	TX68	TX69	TX70	TX71	TX72	TX73	TX74	TX75	TX76	TX77	TX78	62XL	
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	PIN
TX40	TX41	TX42	TX43	TX44	TX45	TX46	TX47	TX48	TX49	TX50	TX51	TX52	TX53	TX54	TX55	TX56	TX57	TX58	TX59	
60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	PIN
TX20	TX21	TX22	TX23	TX24	TX25	TX26	TX27	TX28	TX29	TX30	TX31	TX32	TX33	TX34	TX35	TX36	TX37	TX38	TX39	
TX20 🝣	TX21 79	TX22 78	TX23 77	TX24 76	TX25 75	TX26	TX27 73	TX28	TX29 71	TX30 70	TX31 8	TX32 🎖	TX33 67	TX34 68	TX35 5	TX36 &	TX37 33	TX38 62	TX39 5	PIN

CN2 Connector



CN2

CN1

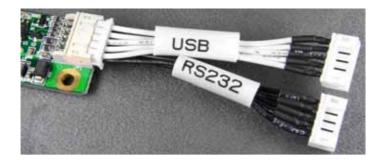
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	PIN
RX114	RX115	RX116	RX117	RX118	RX119	RX120	RX121	RX122	RX123	RX124	RX125	RX126	RX127	RX128	RX129	RX130	RX131	RX132	Shield_RX4	
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	PIN
RX94	RX95	RX96	RX97	RX98	RX99	RX100	RX101	RX102	RX103	RX104	RX105	RX106	RX107	RX108	RX109	RX110	RX111	RX112	RX113	
60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	PIN
RX74	RX75	RX76	RX77	RX78	RX79	RX80	RX81	RX82	RX83	RX84	RX85	RX86	RX87	RX88	RX89	RX90	RX91	RX92	RX93	
												68	67	66	65	64	63	62	61	PIN
												Shield_RX3	RX67	RX68	RX69	RX70	RX71	RX72	RX73	

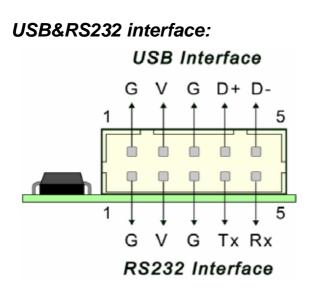
CN3 Connector



																				CN3
20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	PIN
RX48	RX49	RX50	RX51	RX52	RX53	RX54	RX55	RX56	RX57	RX58	RX59	RX60	RX61	RX62	RX63	RX64	RX65	RX66	Shield_RX2	
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	PIN
RX28	RX29	RX30	RX31	RX32	RX33	RX34	RX35	RX36	RX37	RX38	RX39	RX40	RX41	RX42	RX43	RX44	RX45	RX46	RX47	
60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	PIN
RX8	RX9	RX10	RX11	RX12	RX13	RX14	RX15	RX16	RX17	RX18	RX19	RX20	RX21	RX22	RX23	RX24	RX25	RX26	RX27	
												68	67	66	65	64	63	62	61	PIN
												Shield_RX1	RX1	RX2	RX3	RX4	RX5	RX6	RX7	

USB/RS232 Combo Connector Pin Assignment:





I2C interface:

