

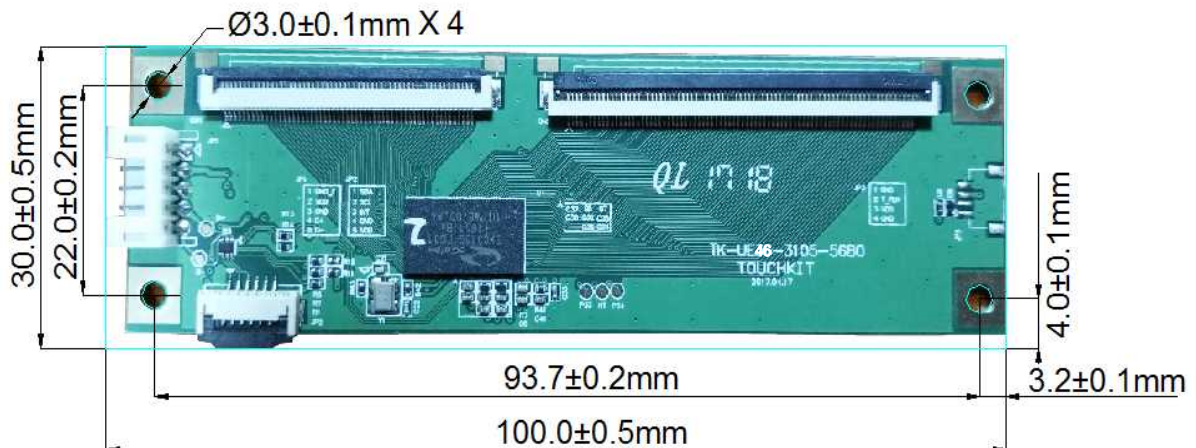
TOUCHKIT TK-UE46

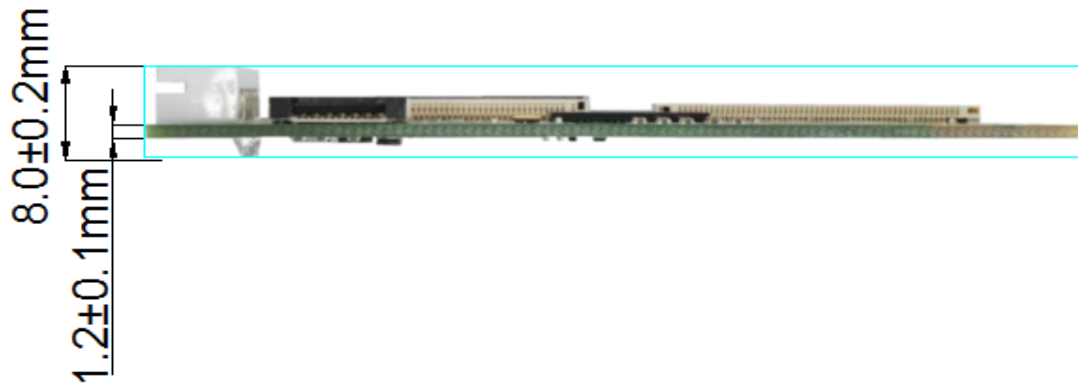
Touch Panel Controller

Touchkit TK-UE46 is based on the chip EXC3189 of EETI, which can support to 10 touch points. This touch panel controller provides the optimistic performance of your projected capacitive touch panels. It communicates with PC system directly through USB/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)	USB & I2C
	Windows 7	
	Windows Vista, XP/2000	
	Windows CE.net/5.0/6.0/7.0	
	Windows Embedded	
Linux	Windows XP Tablet PC edition	USB & I2C
	Distribution based on Kernel 2.6.24 and later. (Ubuntu/Linux Mint Debian Fedora Red Hat/CentOS Magaie/Mandriva/Mandrake SUSE/openSUSE	
	Android 2.3 ~ 4.4	USB & I2C
Mac	Mac OS, Mac OS X (PowerPC, Intel CPU)	USB & I2C
QNX	QNX RTOS v6.3	USB & I2C

Controller:





Thickness:

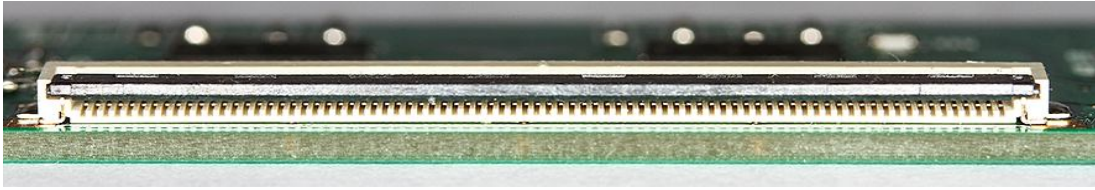
Total thickness: 8.0mm ± 0.2mm
 (Including PCB: 1.2mm ± 0.1mm. USB connector: 5.1mm.
 Soldering pin: 1.7 mm)

Specifications:

USB Type Controller	
Circuit Board Dimension	30mm x 100mm
Channels of Panel	Max. Tx:44 Rx:78 channels (exclude shielding pin)
Input Voltage	Typical 5V / 3.3V.
Operating Temperature	-40 to 85 °C
Storage Temperature	-40 to 90 °C
Relative Humidity	95% at 60 °C, RH Non-condensing
Linearity(Note 1)	Line drawing accuracy : 1pt +/- 1mm offset /10mm Touch (point) accuracy : 1pt +/- 1mm Refer to Windows 8 Logo regulation
Interface	USB: 1.1 Full Speed, I2C:100K/400KHZ
Resolution	4096- 4096 resolution
Power consumption(mA)	Active Mode: 82~85mA Idle Mode : 36~38mA Sleep Mode : < 5mA (Operation Mode :Active Mode only)
Report rate(points/sec) (Note 2)	> 100 Hz
Response time	Average < 25 ms

Note 1: Channel pitch should be design 4.8mm (Win8) or < 6mm (Non-Win8).
Note 2: Report rate will vary by channel number, cover thickness and other parameters.

CN2 Connector---80pin



CN2

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	PIN
RX60	RX61	RX62	RX63	RX64	RX65	RX66	RX67	RX68	RX69	RX70	RX71	RX72	RX73	RX74	RX75	RX76	RX77	RX78	Shielding	
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	PIN
RX40	RX41	RX42	RX43	RX44	RX45	RX46	RX47	RX48	RX49	RX50	RX51	RX52	RX53	RX54	RX55	RX56	RX57	RX58	RX59	
60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	PIN
RX20	RX21	RX22	RX23	RX24	RX25	RX26	RX27	RX28	RX29	RX30	RX31	RX32	RX33	RX34	RX35	RX36	RX37	RX38	RX39	
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	
Shielding	RX1	RX2	RX3	RX4	RX5	RX6	RX7	RX8	RX9	RX10	RX11	RX12	RX13	RX14	RX15	RX16	RX17	RX18	RX19	

USB & I2C Interface:

USB

- GND-E.....1
- VDD2
- GND3
- D+4
- D-5



1 2 3 4 5 6

I2C

-
-
-
- RES
- VDD
- GND
- INT
- SCL
- SDA