

NEOLEC INTERNATIONAL INC.

產品承認書 Product Approval Sheet

客戶/Customer: _____

產品名稱/Product name: 觸控控制板
Touch Control Board

產品型號/Product Code: NLPCA-NEL101-5xx

Customer

本承認書若貴公司確認無誤，懇請於下方確認欄內簽章寄回
Please confirm your acceptance of this approval sheet by return fax.

Approval	Comment

Neolec

Approved by	Reviewed by	Prepared by

Firmware Confirmation

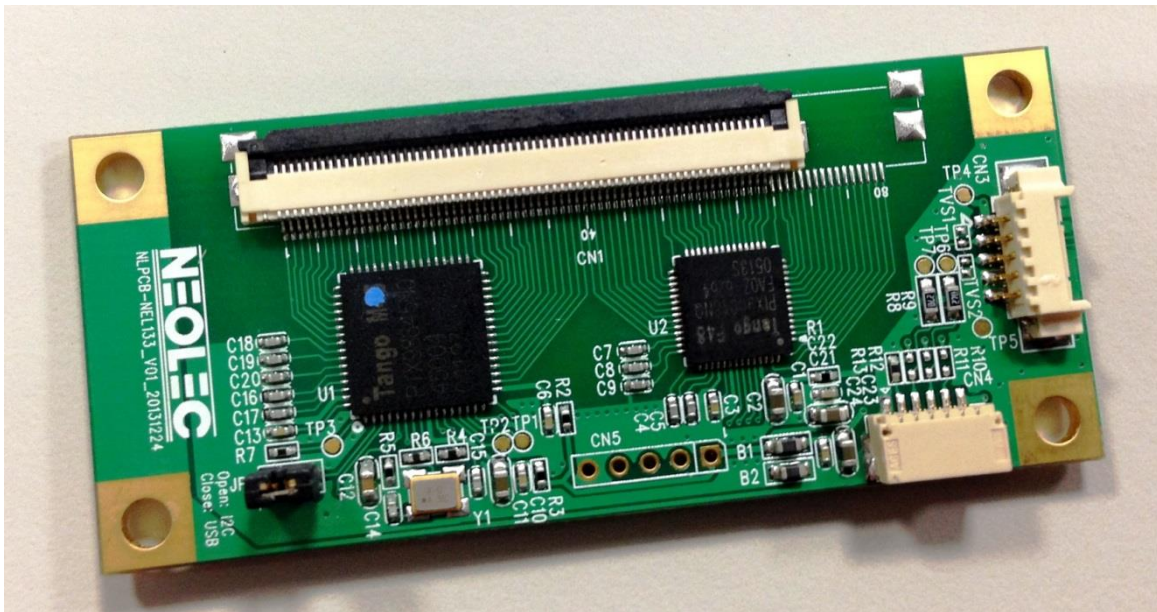
Customer Project Name:	
Touch Panel Vendor:	
Touch Panel Part Number:	
Touch Panel Structure:	
Firmware Version:	
Firmware File Name:	
Checksum:	
Programming Marking:	



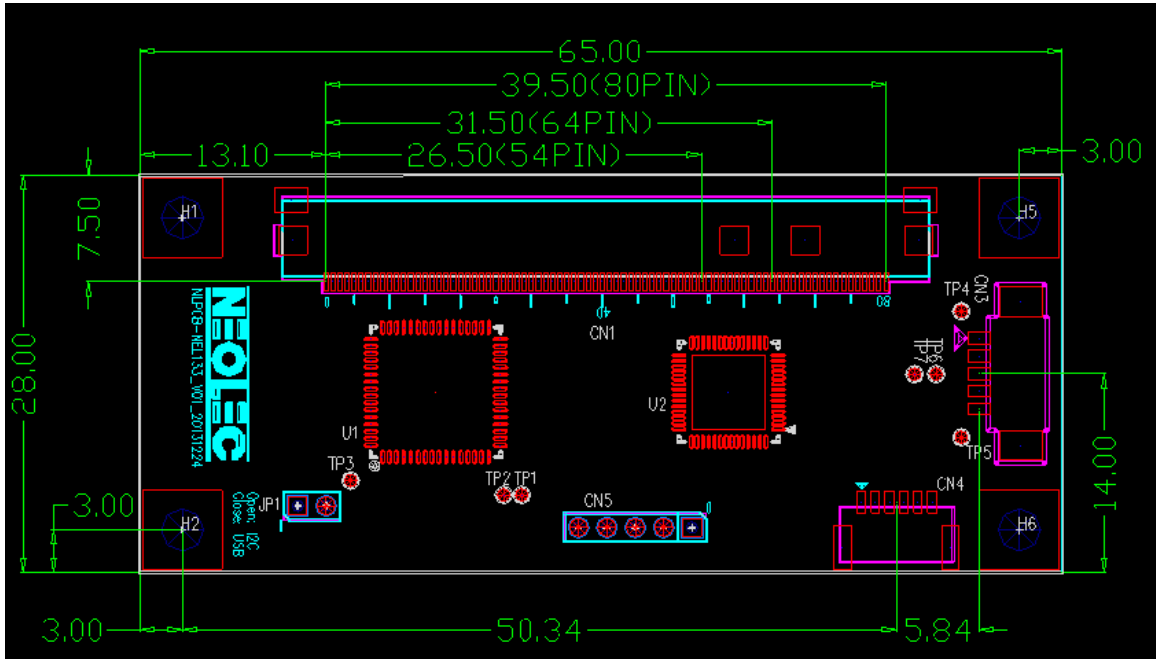
Projected Capacitive USB / I²C Touch Panel Controller

OS	Version	Interfaces
Windows	Windows 7, Windows 8 Windows XP WinCE 5.0/6.0 Windows Embedded Windows XP Tablet PC edition	USB
Linux	up to Kernel 2.6.28 ~ 3.0.8	USB or I2C

Controller:



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Thickness:

Total thickness: 8.7mm ± 0.2mm

- PCB: 1.6mm
- USB connector: 3.45mm
- Jumper: 5.8mm
- Soldering pin: 1.3mm

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Specifications:

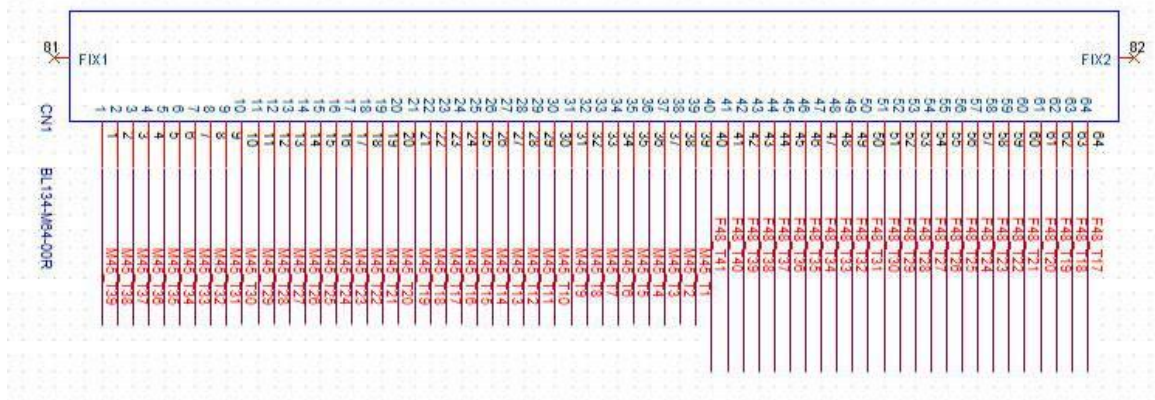
<i>USB / I2C Type Controller</i>	
Circuit Board Dimension	65mm x 28mm
Channels of Panel	Max. X + Y = 64ch. (dummy pin included)
Input Voltage	USB→5V, I2C→5V
Operating Temperature	-20 to 85 °C
Storage Temperature	-40 to 90 °C
Relative Humidity	T = 60°C, RH = 85%
Linearity(Note 1)	Line drawing accuracy: 1pt +/- 1mm Line drawing accuracy: 2pt +/- 2mm Touch (point) accuracy: 1pt +/- 2.5mm Touch (point) accuracy: 2pt +/- 5.0mm Refer to Windows 7 Logo regulation
Interface	USB(JP1 Closed) I2C(JP1 Open, Open-Drain)
Resolution	1920x1080 resolution(Adjustable)
Power consumption(mA)	Active Mode: Typ.28mA(USB) Sleep Mode: Typ.0.058mA(USB)
Report rate(points/sec) (Note 2)	Single touch: Typ.150 Hz Dual touch : Typ.150 Hz 5 point touch: Typ.80 Hz
Response time	Max.20 ms

Note 1: Channel pitch should be 5mm ~ 8mm

Note 2: Report rate depends on Sensor resistance, channel number, cover thickness and other parameters

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FPC Connector Pin Assignment (Adjustable) *CN1 Connector (64 pin, Pitch 0.5mm)*



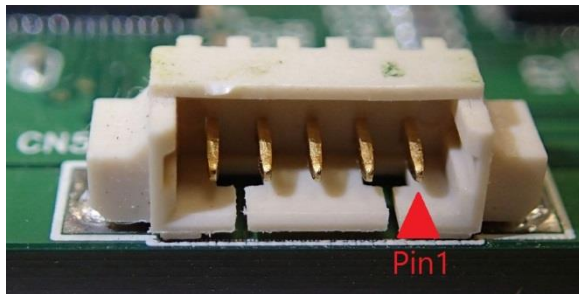
Pin No.	CN3	PIN No.	CN3	PIN No.	CN3	PIN No.	CN3
1	Trace	21	Trace	41	Trace	61	Trace
2	Trace	22	Trace	42	Trace	62	Trace
3	Trace	23	Trace	43	Trace	63	Trace
4	Trace	24	Trace	44	Trace	64	Trace
5	Trace	25	Trace	45	Trace		
6	Trace	26	Trace	46	Trace		
7	Trace	27	Trace	47	Trace		
8	Trace	28	Trace	48	Trace		
9	Trace	29	Trace	49	Trace		
10	Trace	30	Trace	50	Trace		
11	Trace	31	Trace	51	Trace		
12	Trace	32	Trace	52	Trace		
13	Trace	33	Trace	53	Trace		
14	Trace	34	Trace	54	Trace		
15	Trace	35	Trace	55	Trace		
16	Trace	36	Trace	56	Trace		
17	Trace	37	Trace	57	Trace		
18	Trace	38	Trace	58	Trace		
19	Trace	39	Trace	59	Trace		
20	Trace	40	Trace	60	Trace		

Trace could be defined to Sensor pin or Dummy pin by F/W
Max. X + Y = 64ch. (Sensor pin + Dummy pin)

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Wire To Board Connector Pin Assignment:

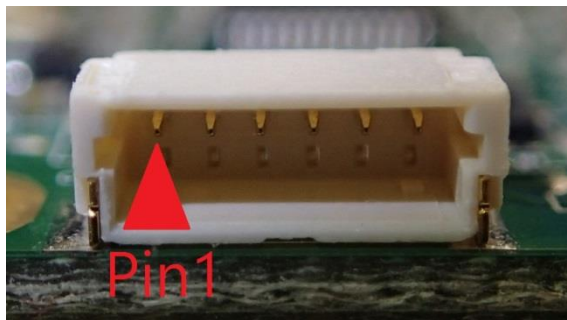
CN3 Connector – USB interface (5 Pin, Pitch 1.25mm):



USB pin define

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
5V	USB D-	USB D+	GND	NC

CN4 Connector - I²C interface (6 Pin, Pitch 1.0mm, H-Type):



I²C pin define

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6
GND	RST/GPI	INT	SCL	SDA	5V

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Ordering Information

NLPCA-NEL101-x x x

