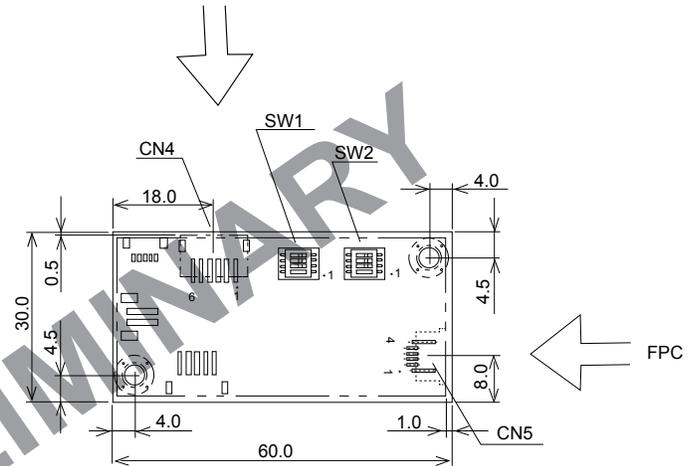
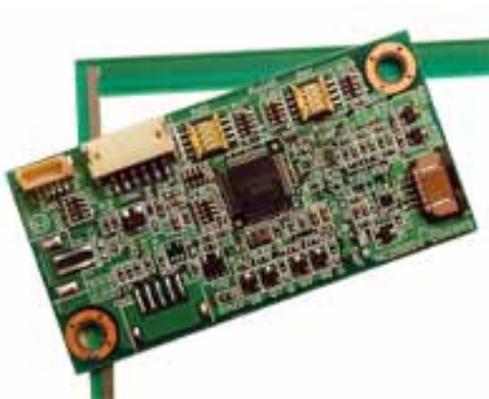


DUAL-TOUCH CONTROL BOARD: 4-WIRE USB

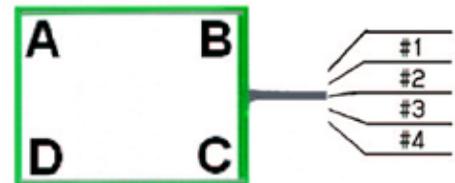
NC01850-B045RS Dual-Touch (2-finger) Control Board Quick Reference

4-Wire Resistive Touch Panels



FEATURES

- Multi-touch functionality with 2 fingers: pinch, expand, rotate, flick
- High quality and reliability
- USB bus powered
- Switch selectable origin point
- RoHS compliant



Origin (0,0) Point

SWITCH SETTINGS

SW1	Orientation mode selection switches	OFF		ON		OFF		ON		<table border="1"> <thead> <tr> <th colspan="2">Connector Pin Assignment</th> </tr> </thead> <tbody> <tr> <td>#1</td> <td>Top</td> </tr> <tr> <td>#2</td> <td>Right</td> </tr> <tr> <td>#3</td> <td>Bottom</td> </tr> <tr> <td>#4</td> <td>Left</td> </tr> </tbody> </table>	Connector Pin Assignment		#1	Top	#2	Right	#3	Bottom	#4	Left
Connector Pin Assignment																				
#1		Top																		
#2	Right																			
#3	Bottom																			
#4	Left																			
SW2	ON	OFF	ON	ON	ON															
SW3	OFF	OFF	ON	ON	ON															

Type A

SW1	Orientation mode selection switches	ON		OFF		ON		OFF		<table border="1"> <thead> <tr> <th colspan="2">Connector Pin Assignment</th> </tr> </thead> <tbody> <tr> <td>#1</td> <td>Left</td> </tr> <tr> <td>#2</td> <td>Top</td> </tr> <tr> <td>#3</td> <td>Right</td> </tr> <tr> <td>#4</td> <td>Bottom</td> </tr> </tbody> </table>	Connector Pin Assignment		#1	Left	#2	Top	#3	Right	#4	Bottom
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#1		Left																		
#2	Top																			
#3	Right																			
#4	Bottom																			
SW2	OFF	OFF	ON	ON	ON															
SW3	OFF	ON	ON	OF	OF															

Type B

Connector Pin Assignment listed on individual touch panel drawings.

USB 4 -Wire Control Board

■ CONSTRUCTION

Specification Item		NC01850-B045RS 4-Wire Dual-Touch Control Board
Mechanical	Size / Weight	60mm x 30mm / 25 grams
Electrical	Supply Voltage (min./max.)	Vcc 4.5 / 5.5 Vdc
	Operating Current (detect)	20mA @ Vcc 5.0V and 25°C
	Sleep Mode Current	24 microAmps @ Vcc. 5.0V and 25°C
Environment	Operating Temperature	-5°C to +60°C
	Storage Temperature	-30°C to +70°C
	Humidity	20% RH to 85% RH at 38°C maximum wet bulb temperature

■ TOUCH PANEL CONNECTION CN1 (FCI: SFW4R-1STAE1-LF-)

■ INTERFACE CONNECTION CN2 (JST S6B-ZR-SM4 (LF) (SN))

1.	+5V (Vcc)	3.	D-(Signal)	5.	Frame Ground
2.	D+ (Signal)	4.	Ground		

Complete specification document is available on request for customers with whom we have an approved NDA in place.

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