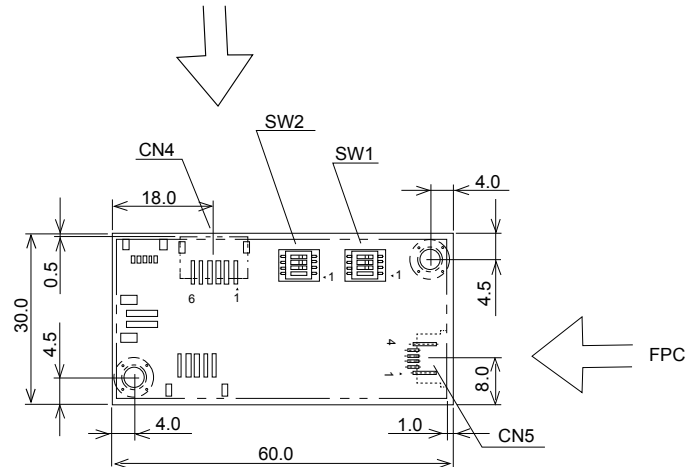


# DUAL-TOUCH CONTROL BOARD: 4-WIRE USB

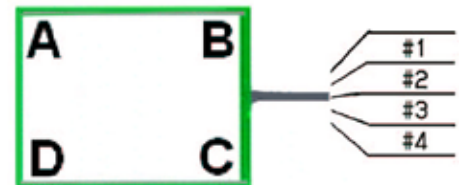
## NC01850-B045RS Dual-Touch (2-finger) Control Board Quick Reference

### 4-Wire Resistive Touch Panels



#### ■ FEATURES





- Multi-touch functionality with 2 fingers: pinch, expand, rotate, flick
- Use with Fujitsu Feather Touch 4-wire resistive touch panel
- High quality and reliability
- USB 2.0 bus powered interface for direct connection
- Switch selectable origin point
- RoHS compliant







Origin (0,0) Point

#### ■ SWITCH SETTINGS

##### SWITCH 1

SW1-1	Orientation mode selection switches	OFF		ON		OFF		ON		<table><tr><th colspan="2">Connector Pin Assignment</th></tr><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></table>	Connector Pin Assignment		#1	Top	#2	Right	#3	Bottom	#4	Left
Connector Pin Assignment																				
#1		Top																		
#2	Right																			
#3	Bottom																			
#4	Left																			
SW1-2	ON	OFF	ON																	
SW1-3	OFF	OFF	ON																	
SW1-4	Reserved	OFF	OFF	OFF																

Type A

SW1-1	Orientation mode selection switches	ON		OFF		ON		OFF		<table><tr><th colspan="2">Connector Pin Assignment</th></tr><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></table>	Connector Pin Assignment		#1	Left	#2	Top	#3	Right	#4	Bottom
Connector Pin Assignment																				
#1		Left																		
#2	Top																			
#3	Right																			
#4	Bottom																			
SW1-2	OFF	OFF	ON	ON																
SW1-3	OFF	ON	ON	OFF																
SW1-4	Reserved	OFF	OFF	OFF	OFF	OFF	OFF													


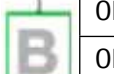


Type B

Notes:





Connector Pin Assignment listed on individual touch panel drawings.

# USB 4 -Wire Control Board

## SWITCH 2

SW2-1	Reserved	ON		ON		ON		ON		<table><tr><th colspan="2">Connector Pin Assignment</th></tr><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></table>		Connector Pin Assignment		#1	Top	#2	Right	#3	Bottom	#4	Left
Connector Pin Assignment																					
#1	Top																				
#2	Right																				
#3	Bottom																				
#4	Left																				
SW2-2	Dual/single touch mode select	ON	ON	ON																	
SW2-3	Digitizer/mouse mode select	ON	ON	ON																	
SW2-4	Reserved	ON	ON	ON																	

Type A

SW2-1	Reserved	ON		ON		ON		ON		<table><tr><th colspan="2">Connector Pin Assignment</th></tr><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></table>		Connector Pin Assignment		#1	Top	#2	Right	#3	Bottom	#4	Left
Connector Pin Assignment																					
#1	Top																				
#2	Right																				
#3	Bottom																				
#4	Left																				
SW2-2	Dual/single touch mode select	ON	ON	ON																	
SW2-3	Digitizer/mouse mode select	ON	ON	ON																	
SW2-4	Reserved	ON	ON	ON																	

Type B

## ■ CONSTRUCTION

Specification Item		NC01850-B045RS 4-Wire Dual-Touch Control Board
Mechanical	Size / Weight	60mm x 30mm / 25 grams
	Supply Voltage (min./max.)	Vcc 4.5 / 5.5 V USB bus powered
Electrical	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 CN5 (FCI: SFW4R-1STAE1-LF)

## ■ INTERFACE CONNECTION CN4 (JST S6B-ZR-SM4 (LF) (SN))

1.	+5V (Vcc)	3.	D+ (Signal)	5.	Frame ground
2.	D- (Signal)	4.	Ground (Vss)	6.	N.C.

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

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