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

**SWITCH SETTINGS**

**SWITCH 1**

<table>
<thead>
<tr>
<th>SW1-1</th>
<th>Orientation mode selection switches</th>
<th>SW1-2</th>
<th>SW1-3</th>
<th>SW1-4</th>
<th>Reserved</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
</tr>
<tr>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>

**Connect Pin Assignment**
- Type A:
  - #1: Top
  - #2: Right
  - #3: Bottom
  - #4: Left
- Type B:
  - #1: Left
  - #2: Top
  - #3: Right
  - #4: Bottom

**Notes:**
Connector Pin Assignment listed on individual touch panel drawings.
USB 4 -Wire Control Board

### Construction

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

### Touch Panel Connection CN5 (FCI: SFW4R-1STAE1-LF)

### Interface Connection CN4 (JST S6B-ZR-SM4 (LF) (SN))

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

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

Fujitsu Components International Headquarters Offices

**Japan**
Fujitsu Component Limited
Gotanda-Chuo Building
3-5, Higashihigashitanda 2-chome, Shinagawa-ku
Tokyo 141, Japan
Tel: (81-3) 5449-7010 / Fax: (81-3) 5449-2626
Email: promothq@fcl.fujitsu.com
Web: www.fcl.fujitsu.com

**North and South America**
Fujitsu Components America, Inc.
250 E. Caribbean Drive
Sunnyvale, CA 94089 U.S.A.
Tel: (1-408) 745-4900 / Fax: (1-408) 745-4970
Email: components@us.fujitsu.com
Web: http://us.fujitsu.com/components/

**Europe**
Fujitsu Components Europe B.V.
Diamantlaan 25
2132 WV Hoofddorp, Netherlands
Tel: (31-23) 5560910 / Fax: (31-23) 5560950
Email: info@fceu.fujitsu.com
Web: emea.fujitsu.com/components/

**Asia Pacific**
Fujitsu Components Asia Ltd.
102E Pasir Panjang Road
#01-01 Citilink Warehouse Complex
Singapore 118529
Tel: (65) 6375-8560 / Fax: (65) 6273-3021
Email: fcal@fcal.fujitsu.com
Web: http://www.fujitsu.com/sg/services/micro/components/

©2013 Fujitsu Components America, Inc. All rights reserved. All trademarks or registered trademarks are the property of their respective owners. Fujitsu Components America or its affiliates do not warrant that the content of datasheet is error free. In a continuing effort to improve our products Fujitsu Components America, Inc. or its affiliates reserve the right to change specifications/datasheets without prior notice.

Rev. January 7, 2013