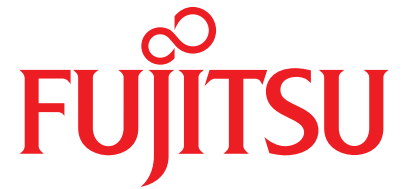


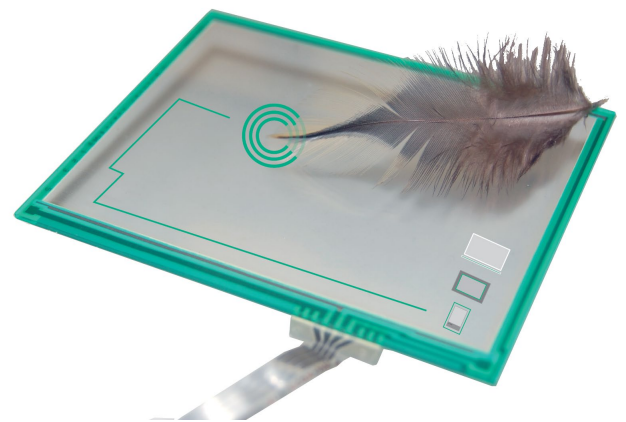
# Feather Touch



4-wire resistive touch panel  
designed for multi-touch  
gesturing applications

**Enabling low-cost, high  
reliability, easily integrated  
alternatives to Projected  
Capacitive Multi-Touch Panels**

- **Standard 4-wire resistive touch panel structure, 4.3-inch to 22-inch panel size**
- **Special controller enabling 2-finger sensing (except automotive type)**
- **Optimized for gesture recognition, pinch, expand, rotate, flick, swipe (except automotive type)**
- **Ultra low input force: min. 0.02N**
- **Special top film technology provides user experience comparable to projected capacitive panels**
- **Film/Glass structures**
- **Touch window enables creative Industrial Design: flush surface, logo printing, special shapes supported**
- **Transparency 80% to 90%**
- **Anti-Newton Ring technology**



shaping tomorrow with you

## Feather-Touch Specifications

Operation force	Min. 0.02N (initial, measuring point: center of the touch panel)	
Surface hardness of film	Pencil hardness $\geq$ 3H 22-inch: more than 2H	JIS K-5400
Transparency	80% to 90%	JIS K 7105
Haze	6% typical (Custom range is 1% to 10%)	JIS K 7105 surface: anti-glare
Operation temperature	-5~60°C	
Operation humidity	20~90%RH	Maximum wet bulb temperature 38°C with no condensation
Storage temperature	-30~70°C	
Storage humidity	10~90%RH	Maximum wet bulb temperature 38°C with no condensation
Reliability	1 million finger inputs	Tapping at the same point by silicon rubber R8 hardness 60%

## Feather-Touch Panel Sizes

NC01111-T161	3.8-inch	NC01111-T241	12.1-inch
NC01111-T181	4.3-inch	NC01111-T242	12.1-inch
NC01152-T101	7-inch wide	NC01111-T081	12.1-inch wide
NC01111-T202	8.4-inch	NC01111-T261	15-inch
FID-1154-401-A10	10.1-inch wide	NC01152-T021	15.3-inch wide
NC01111-T222	10.4-inch	NC01111-T281	17.1-inch
NC01111-T221	10.4-inch	FID-1111-381-A19	19-inch
NC01111-T222	10.4-inch	FID-1111-501-A22	22-inch wide

## 4-Wire Dual Touch Controller Board & MCU

FID-1850-120	USB controller board	
Operation temperature	-5~60°C	
Operation humidity	20~85%RH	Maximum wet bulb temperature 38°C with no condensation
Storage temperature	-30~70°C	
Storage humidity	20~85%RH	Maximum wet bulb temperature 38°C with no condensation
Size	60mm x 30mm	
FID-1860-005	USB controller MCU	
NC41120-0038	I2C controller MCU	

---

**Contact**

<b>Japan</b> FUJITSU COMPONENT LIMITED Shinagawa Seaside Park Tower 12-4, Higashi-shinagawa 4-chome, Tokyo 140 0002, Japan Tel: (81-3) 3450-1682 Fax: (81-3) 3474-2385 Email: fcl-contact@cs.jp.fujitsu.com Web: www.fujitsu.com/jp/group/fcl/en/	<b>Europe</b> 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: www.fujitsu.com/uk/components/	<b>China</b> FUJITSU ELECTRONIC COMPONENTS (SHANGHAI) CO., LTD. Unit 4306, InterContinental Center 100 Yu Tong Road, Shanghai 200070, China Tel: (86 21) 3253 0998 / Fax: (86 21) 3253 0997 Email: fcal@sg.fujitsu.com www.fujitsu.com/sg/products/devices/ components/	<b>Korea</b> FUJITSU COMPONENTS KOREA, LTD. Alpha Tower #403, 645 Sampyeong-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 13524 Korea Tel: (82 31) 708-7108 Fax: (82 31) 709-7108 Email: fcal@sg.fujitsu.com www.fujitsu.com/sg/products/ devices/components/
<b>North and South America</b> FUJITSU COMPONENTS AMERICA, INC. 2290 North First Street, Suite 212 San Jose, CA 95131 U.S.A. Tel: (1-408) 745-4900 Fax: (1-408) 745-4970 Email: components@us.fujitsu.com Web: http://us.fujitsu.com/components/	<b>Asia Pacific</b> 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@sg.fujitsu.com www.fujitsu.com/sg/products/devices/ components/	<b>Hong Kong</b> FUJITSU COMPONENTS HONG KONG Co., Ltd. Room 06, 28/F, Greenfield Tower, Concordia Plaza, No.1 Science Museum Road, Tsim Sha Tsui East, Kowloon, Hong Kong Tel: (852) 2881 8495 Fax: (852) 2894 9512 Email: fcal@sg.fujitsu.com www.fujitsu.com/sg/products/devices/ components/	

---

**Copyright**

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. Copyright ©2019 Fujitsu Components America, Inc. All rights reserved. Revised April 9, 2019.

---

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Fujitsu:

[NC01111-T161](#) [NC01111-T222](#) [NC01111-T202](#) [NC01152-T101](#) [NC01111-T181](#) [NC01111-T242](#) [NC01101-T021](#)  
[NC01101-T081](#) [NC01111-T281](#) [NC01101-T041](#) [NC01101-T061](#) [NC01111-T261](#) [NC01152-T021](#) [NC01101-T001](#)  
[NC01111-T081](#)