

# 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, 3.5-inch to 17-inch panel size**
- **Special controller enabling 2-finger sensing**
- **Optimized for gesture recognition, pinch, expand, rotate, flick, swipe**
- **Ultra low input force: 0.02~0.3N**
- **Special top film technology provides user experience comparable to projected capacitive panels**
- **Film/Glass, Film/Film/Plastic structures available**
- **Touch window enables creative Industrial Design: flush surface, logo printing, special shapes supported**
- **Transparency 82%~90%**
- **Automotive temperature range available:  
-30~+85°C (operation)  
and -40~+95°C (storage)**
- **Anti-Newton Ring technology**



shaping tomorrow with you

## Feather-Touch Specifications

|                          |   |   |
|--------------------------|---|---|
| Operation force          | 0.02~0.3N (initial, measuring point: center of the touch panel) |   |
| Surface hardness of film | Pencil hardness $\geq$ 3H                                       | JIS K-5400  |
| Transparency             | 82%~90% typical   | JIS K 7105  |
| Haze                     | 5%~10% typical  | JIS K 7105 surface: anti-glare                              |
| Linearity                | $\leq$ 1.5%   |   |
| 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-T202 | 8.4-inch       |
| NC01111-T181 | 4.3-inch               | NC01111-T222 | 10.4-inch      |
| NC01101-T001 | 6.95-inch (automotive) | NC01111-T242 | 12.1-inch      |
| NC01101-T021 | 6.5-inch (automotive)  | NC01111-T081 | 12.1-inch wide |
| NC01101-T041 | 7-inch                 | NC01111-T261 | 15-inch        |
| NC01101-T061 | 7-inch                 | NC01152-T021 | 15.3-inch wide |
| NC01101-T081 | 8-inch (automotive)    | NC01111-T281 | 17-inch        |
| NC01152-T101 | 7-inch wide            |              |                |

## 4-Wire Dual Touch Controller Board & MCU

|                       |                            |  |
|-----------------------|----------------------------|--|
| NC01850-B045RS        | USB controller board       |  |
| NC01850-B040RS        | I2C development test board |  |
| 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      | 20~85%RH                   | Maximum wet bulb temperature 38°C with no condensation |
| Size                  | 60mm x 30mm                |  |
| NC41120-0031          | USB controller MCU         |  |
| NC41120-0030          | I2C controller MCU         |  |

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