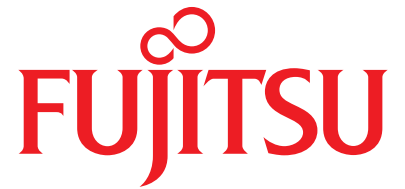


Feather Touch



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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