



Using Fusion touch displays, OEMs/ODMs can quickly design cutting edge touch products with less cost and development risk.

- Entertainment Systems
- Control Systems
- Kiosks
- Telepresence Systems
- Vending Machines
- POS Terminals
- White Goods

Fusion Multi-Touch Displays

Projected Capacitive Sensor and Cover Glass

The core of the Fusion touch display is a glass projected capacitive touch sensor, optically bonded to a clear cover glass in a state-of-the-art manufacturing facility. This provides best-in-class optical properties, touch accuracy, durability and industrial design flexibility.

Integrated Multi-Touch Controller



Fusion touch displays include an integrated touch controller system mounted directly on the flex tail (Chip on Flex). The Fusion controller runs Touch Revolution's proprietary firmware, capable of tracking at least two unambiguous touch points with a high report rate.

Integrated LCD

Each Fusion touch display includes an integrated LCD mechanically bonded to the touch sensor to create a single, easy-to-integrate module with high cosmetic quality. The Fusion touch firmware has been tuned to the LCD to ensure easy integration as a drop-in component.

Benefits of Projected Capacitive Touch Technology

Touch Revolution's Fusion displays offer a host of benefits over traditional touch sensor designs. In addition to improved optical transmittance, durable design, and integrated touch controllers; projective capacitive Fusion displays allow designers an out-of-the box experience with intuitive gesture capability, improved industrial design and a touch interface that is instantly recognizable by consumers.

Specifications

MODEL	Fusion 4	Fusion 7	Fusion 10
Screen Size	4.3"	7"	10.1"
LCD Resolution	480 x 272	800 x 480	1024 x 600
Active Area (mm)	95.04 x 53.86	152.40 x 91.44	222.72 x 125.28
Touch Resolution (points)	950 x 550	1500 x 900	2300 x 1350
Cover Glass Thickness (mm)	1.1	1.0	1.1
Touch Interface Supply Voltage	3.3V	3.3V	5.0V
LCD Pixel Pitch (H x V mm)	0.198 x 0.198	0.1905 x 0.1905	0.2175 x 0.2088
LCD Interface	TTL Interface	TTL Interface	1-channel LVDS
LCD Light Output (cd/m2 - nits)	500	350	200
Contrast Ratio	600:1	400:1	500:1
Viewing Angle (H x V)	150/130	140/130	90/50
Backlight Life	>10,000 hours	>10,000 hours	>10,000 hours
Power Consumption (LCD/Backlight)	0.9/0.924 W	0.86/1.98 W	0.65/1.53 W
Operating Temperature (°C)	-20 to +60	-20 to +60	0 to +50
Storage Temperature (°C)	-30 to +70	-30 to +70	-20 to +60
Relative Humidity (%)	0 ~ 90	0 ~ 90	0 ~ 90
Module Dimensions (mm)	120.38 x 79.20 x 5.23	179.96 x 119.00 x 7.50	249.12 x 151.70 x 7.65
Weight (g)	78.1	210.5	356
Part Number	F04B-0101	F07A-0102	F10A-0102

COMMON SPECIFICATIONS

Touch Technology	Projected Capacitive	Touch Linearity	1 mm center, 2 mm within 5 mm of edges
Touch Input Type	Min 7 mm diameter finger or conductive stylus	Touch Report Rate	80–100 interrupts/sec. (single touch)
Activation Force	No pressure required	Touch Controller	Integrated on FPC (CoF)
Multi-Touch	At least two unambiguous points with 15 mm separation	Touch Interface	I2C (USB 2.0 Optional)
Touch Panel Construction	Glass sensor plus cover glass optically bonded	Touch Software	Reference Driver for Linux, Android
Cover Glass Hardness	>9H	Touch Connector	6 pin ZIF
Optical Transmittance	>89%		

CUSTOMIZATION OPTIONS*

Cover Glass ID	Dimensions, thickness and artwork	Flex Tail Dimensions	Custom dimensions and shapes
Cover Glass Type	Chem strengthened glass, other non-conductive materials	LCD	Alternative LCD Integration
Surface Treatments	Anti-glare, anti-fingerprint		

* MOQ and custom pricing apply for customized products