

FUJITSU Component Touch Panels

Feather Touch - Flush Surface Light Input Load FID-1300/FID-1520 series

Fully Customizable Resistive Touch Panels

Overview

A film-glass construction resistive touch panel with light input load and flush surface structure. Decorative patterns are available, including multi-color graphics. Required input force is less than a half of conventional resistive touch panels.

The panel allows improved design of user's products as well as offering light input force nearly identical to projected capacitive touch panels with benefit of secure resistive input method.



Flush surface design

Maintains clear flat input surface of customer's products and supports waterproof performance. Aperture and other glass finishing features are available. FID-1300 series utilizes 4-wire resistive method, and FID-1520 series utilizes 5-wire resistive method.



We achieve reliable input and smooth slide/flick operations with less than half the input force of conventional touch panels. Direct print on the top ITO film and eliminating a cover film helps to lower input force.

Long life

FID-1300 series (4-wire) offers minimum 1 million touches in a single location.

FID-1520 (5-wire) offers minimum 10 million touches.

Various input methods

Operable with fingers, gloved fingers, wet fingers, pen, stylus pen.

2-point input, enlarge/shrink gesture available

2-point input, enlarge/shrink, rotation (FID-1300 series only) is available with Dual Touch Control board.

Custom design available

Customization is available on anti fingerprint, anti reflection, glass thickness, total light transmittance, haze, FPC placement and length.

RoHS compliant

Major applications

- Mobile terminals
- Operation panel on vehicle navigation system, POS/ECR, multifunction copier, white goods
- Industrial and medical terminals



FID-1300 series



FID-1520 series

■ Specifications

Item		Specifications		Notes	
Series		FID-1300	FID-1520	Notes	
Туре		4-wire resistive	5-wire resistive		
Input method		Pen and finger			
Hardness		Pencil hardness min. 3H		JIS K 5400	
Contruction		Film-Glass	·		
Operting force	Minimum	0.02N		R120 silicon rubber (hardness 30 degree)	
	Typical	0.45N			
Typing life		100,000 words min.	1,000,000 words min.	R0.8 polyacetal resin pen, writing force 1.96N	
Input life		1,000,000 times min.	10,000,000 times min.	R120 (hardness 20degree), input force 1.96N, frequency 5Hz	
Electrical rated voltage		5.0 VDC±10%			
Insulation resistance		10ΜΩ		at 25VDC	
Environmental conditions*	Operating temperature/humidity	-5° to +60°C (20%RH to 90%RH)		Extended range available	
	Storage temperature/humidity	-30° to +70°C (10%RH to 90%RH)		Extended range available	

^{*:} Wet bulb temperature max. 38°C, no condensation.

Control board and IC

Part Number	Output Interface	Dimensions (mm)
N16B-0558-B760 (for FID-1520)	USB	95.0 x 30.0 x 4.9
NC01850-B070RS (for FID-1300)	Asynchronous Serial	75.0 x 30.0 x 5.9
NC01850-B010RS (for FID-1300)	USB	75.0 x 30.0 x 7.4
NC41120-0021 (for FID-1520)	USB	9.0 x 9.0 x 1.7 48 pin SQFP
NC41120-0036 (for FID-1300)	Asynchronous Serial	9.0 x 9.0 x 1.7 48 pin SQFP
NC41120-0051 (for FID-1300)	USB	9.0 x 9.0 x 1.7 48 pin SQFP
FID-1850-120 (for FID-1300)	USB	60.0 x 30.0 x 4.9
FID-1860-005 (for FID-1300)	USB	9.0 x 9.0 x 1.7 48 pin SQFP
	N16B-0558-B760 (for FID-1520) NC01850-B070RS (for FID-1300) NC01850-B010RS (for FID-1300) NC41120-0021 (for FID-1520) NC41120-0036 (for FID-1300) NC41120-0051 (for FID-1300) FID-1850-120 (for FID-1300)	N16B-0558-B760 (for FID-1520) USB NC01850-B070RS (for FID-1300) Asynchronous Serial NC01850-B010RS (for FID-1300) USB NC41120-0021 (for FID-1520) USB NC41120-0036 (for FID-1300) Asynchronous Serial NC41120-0051 (for FID-1300) USB FID-1850-120 (for FID-1300) USB

Contact

Japan

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/

North and South America
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/

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: www.fujitsu.com/uk/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@sg.fujitsu.com www.fujitsu.com/sg/products/devices/ components/ China

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/

Hong Kong

FOUNTS 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/

Korea

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/

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