

Optical Touch Panel for 15-inch LCD UP-JAB9 Series



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The UP-JAB9 Series is an optical touch panel for diagonal 15-inch LCD's. The optical touch panel provides pairs of infrared light emitting and receiving element on the X-Y axis, and the light is emitted between each element. By an interruption of the light with an object such as a finger, the interrupted position is detected. The UP-JAB9 Series offers outstanding durability and clear image.

The UP-JAB9 Series is originally designed to prevent malfunction due to the strong ambient light that is peculiar problem to the optical touch panel. Because the UP-JAB9 Series doesn't malfunction even under the direct sunlight, this offers a high degree of freedom in the system location.

There is a wide range of applications including operation displays of ATMs, ticket vending machines and public access terminals that are used by unspecified people.



Features

- Applicable to 15-inch LCD's.
- Optical touch panel withstanding the strong ambient light. Doesn't malfunction even under the direct sunlight from nearly horizontal against the surface of display.
- Thin design with 9.9 mm thick.
- High response scanning at a scan time of 15 ms (TYP.) per scan.
- Element pitch: 6.0 mm x 6.0 mm. (Minimum detectable size: 8.9 mm in dia.)
- Serial coordinate data output is an RS-232C and a USB.
- Withstands repeated touch and suitable for public access terminals.
- Touch panel driver can control two screens including combination with a different type touch panel. The touch panel driver supports Windows[®]XP, Windows Vista[®] (32 bit) and Windows[®]7 (32 bit)^{See Note 1.}

Note 1: Windows[®] and Windows Vista[®] are registered trademarks of Microsoft Corporation in the United States and other countries.

Applications

- ATM, Ticket Vending Machine, POS, KIOSK Terminal.

Specifications

General Specifications

Product Number	UP-JAB9-A	UP-JAB9-B	UP-JAB9-C	UP-JAB9-D	UP-JAB9-E
Power Supply	5 VDC +/- 5%, 85 mA (TYP.)				
Operating Temperature	0 to +50 deg. C				
Storage Temperature	-20 to +65 deg. C				
Operating Humidity	20 to 90% RH, no dew condensation.				
Storage Humidity	5 to 90% RH, no dew condensation.				
Color of Bezel	Black				
Outline Dimensions	356 (W) x 273 (H) x 9.9 (D) mm (Including rear panel)				

Sensor Portion

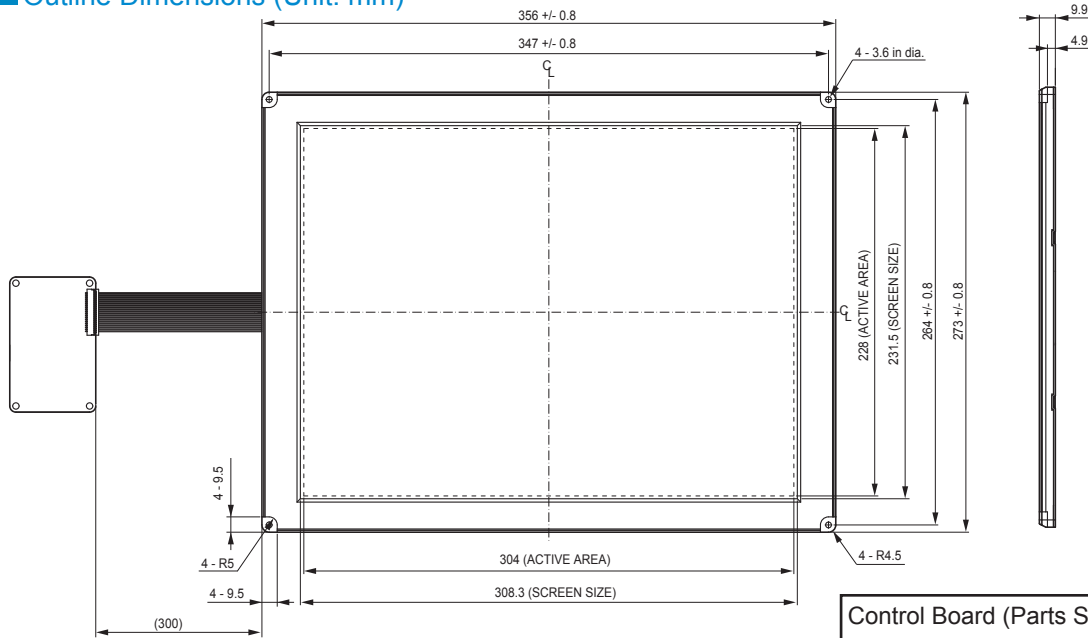
Detection Type	Infrared light interruption method				
Screen Size	308.3 (W) x 231.5 (H) mm Applicable to 15-inch LCD's.				
Active Area	304 (W) x 228 (H) mm				
Number of Elements	52 (W) x 39 (H)				
Element Pitch	6 x 6 mm				
Resolution	Double or Quadruple precision				
Detectable Size	8.9 mm in dia. min.				
Anti-Light Disturbance	100,000 lx min. (Angle of incidence: 20 deg. min.)				
	25,000 -100,000 lx min. (Angle of incidence: under 20 deg.)				
Material of Panel	Acrylic			Reinforced glass	
Surface Treatment of Panel	Hard coat 6H, AG, Antibacterial		Hard coat 6H, AG		AG (Both sides)
Thickness of Panel	3 mm				
Rear Panel	Mold resin	Metal	Mold resin	Metal	Metal

Control Board

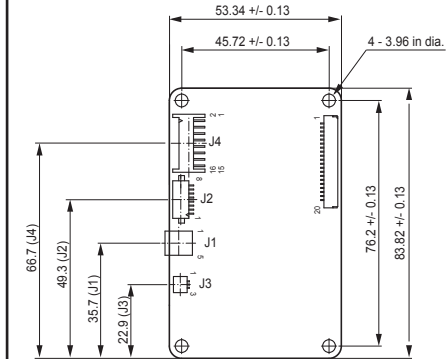
Outline Dimensions	83.82 (W) x 53.34 (H) x 6.45 (D) mm
Interface	USB2.0 (Full Speed 12 Mbps) or RS-232C
Interface Connector	DF11-16DP-2DS(52) : USB DF13A-8P-1.25H(51) : RS-232C UB-M5BR-G14 : USB SM03B-SRSS-TB : Anomaly detection (Optional)
Power Supply	USB Connector, RS-232C Connector
Detection (Scan) Time	15 ms (TYP.)

Made-to-order Product

■ Outline Dimensions (Unit: mm)



Control Board (Parts Side)



Parts Mounting Height : 6.45 +/- 0.5 max.
PCB Thickness : 1.6

J4: DF11-16DP-2DS(52) : USB
J2: DF13A-8P-1.25H(51) : RS-232C
J1: UB-M5BR-G14 : USB
J3: SM03B-SRSS-TB : Anomaly detection (Optional)

Before placing an order

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