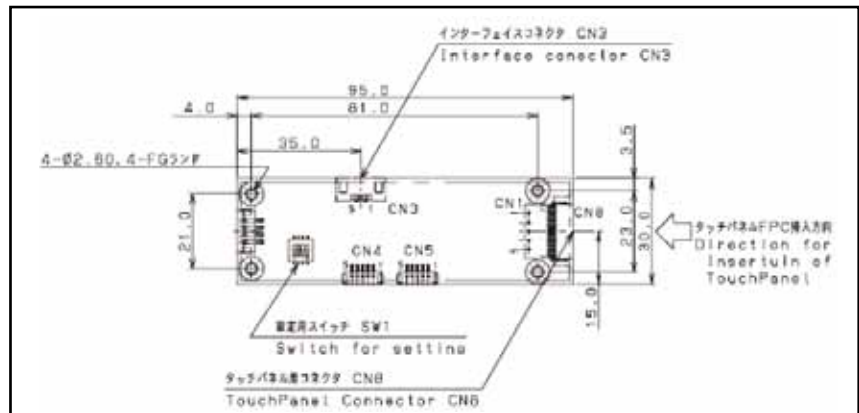


TOUCH PANEL CONTROL BOARD 5-WIRE Serial

N16B-0558-B764 Serial Interface Controller Board Quick Reference

5-Wire Resistive Touch Panels



■ FEATURES

- This controller board applies to the 5-wire analog resistive input touch panel.
- High quality and reliability resistive touch panel control board with integrated switch for selectable cable tail exit direction for FPC cable.
- RS-232C interface for direct connection to PC or serial interfaces.
- PnP or non-PnP mode selectable
- RoHS compliant

■ SWITCH SETTINGS

SW 1	Function	Setting	State of factory shipment
1	Direction setting	Please refer to 'Origin of Coordinate Position' on page 2.	OFF
2			OFF
3			OFF
4	Coordinate	ON: 14bit coordinate OFF: 12bit coordinate	OFF

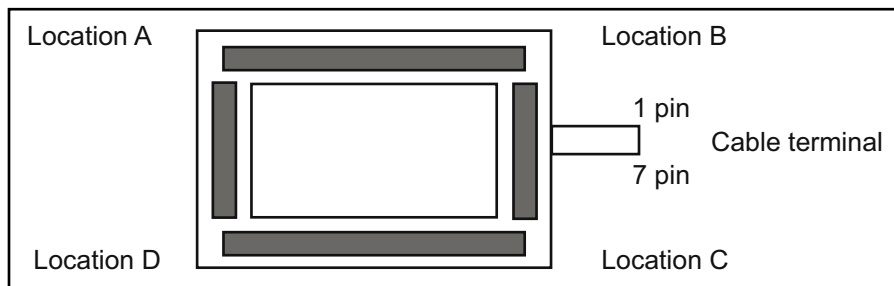
Serial 5 -Wire Control Board

■ ORIGIN OF COORDINATE POSITION

The origin of coordinate position is set with the dip switch 1 to 3.

Location of origin	SW1-1	SW1-2	SW1-3
A	OFF	ON	ON
B	ON	ON	OFF
C	OFF	OFF	OFF
D	ON	OFF	ON

The figure below shows the drawing outline of the touch panel with FPC on the right side.
Ex.: In this figure the FPC cable terminal is to the right, set the dip switch for origin position to location 'A'. (OFF / ON / ON)



■ CONSTRUCTION

Specification Item		N16B-0558-B764 5-Wire Serial Control Board
Mechanical	Size / Weight	95mm x 30mm / tbd
Electrical	Supply voltage (max./min.)	Vcc 5.5V /4.1V*1
	Operating current (detect)	35 mA at Vcc = 5V and T=25 degrees
	Sleep mode current	28 mA at Vcc = 5V and T=25 degrees
Environment	Operating temperature	-5°C to +60°C
	Storage temperature	-30°C to +70°C
	Humidity	20% RH to 85% RH at +38°C max. wet bulb temperature

*1: If the power supply voltage changes suddenly within the specification, the controller IC may malfunction. Stabilize the power supply voltage of controller IC, Vcc ripple change must be ± 39 (mV) p-p or less.

■ TOUCH PANEL CONNECTION CN1 (FCI: SFW15R-1STAE1-LF)

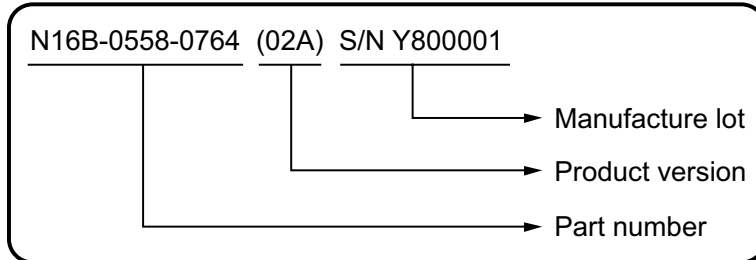
■ INTERFACE CONNECTION CN3 (Molex: 53398-0571)

		-B764	Host
1.	+5V (Vcc)	1+5V	+5V
2.	Transmit data	2 TXD	RXD
3.	Receive data	3 RXD	TXD
4.		4 CTS	RTS*2
5.	Ground	5 Gnd	Gnd

*2: optional: used for plug-n-play detection

Serial 5 -Wire Control Board

■ LABEL SPECIFICATION



Part number: N16B-0558-0764
Product version: (02A)
Manufacture lot: Y800001 = 2009 8 No.00001
August 2009 Serial No. 00001

Year:	Month:	
2009 - Y	Jan - 1	Oct - X
2010 - Z	Feb - 2	Nov - Y
2011 - A	Mar - 3	Dec - Z
2012 - B		

Complete specification document is available on request for customers with whom we have an approved NDA in place.

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