FLETAS

Capacitive Touch Switch
4x4 Keypad

Noritake

E-M-0176-00 09122016

4×4 KEYPAD

Works with gloves and water spillage.

Beauty Like No Other

Luxurious glossy appearance

Customizable LED color

Made of tempered glass

Custom Keypad Example

Gloves and Water

Adaptable sensitivity

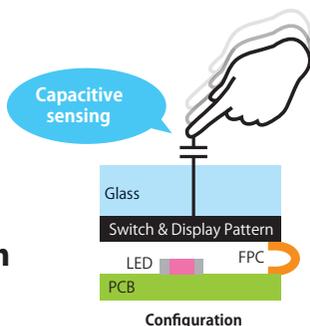**Works with thicker rubber gloves**

No false touches due to water spills

Longer and Cleaner Life

Capacitive touch replaces buttons

No degradation over time

Easily maintained with cleaning solutions

Capacitive sensing

Glass
Switch & Display Pattern
LED   FPC
PCB

Configuration

Easy Operation

Integrated all necessary components

SW1 TOUCH

SW1: 0→1

1   00000001 → Host
     00000000

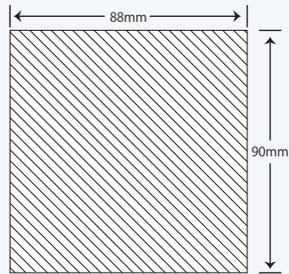**Serial Output**

Key Scan 4x4

Configure touch data output via simple commands

Keypad Mounting in 3 Easy Steps

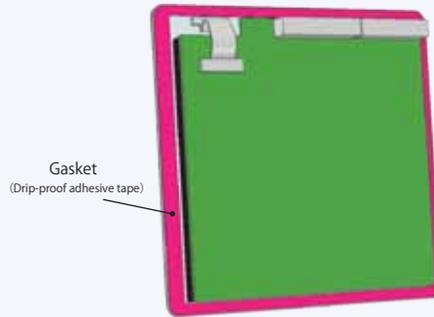The keypad module can be firmly attached to the opening of the chassis by using a surrounding gasket.

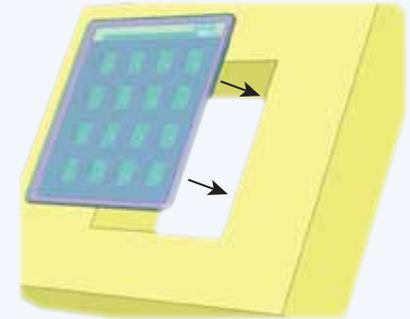## Step 1

Cut the chassis with the following dimensions:

88mm

90mm

Step 2

Peel off the gasket's protective covering.

Gasket
(Drip-proof adhesive tape)

Step 3

Insert the keypad into the area of the chassis that was cut in step 1.

● Specification

Specification

Part Number	TKU016CT-A100
Power Supply	5V
LED Backlight Color	White
Interface	3.3V Signal Level
	SPI, I2C, UART, Key Scan 4x4
Function	Switch ON/OFF Reading
	Switch Sensitivity Adjustment
	LED Brightness Adjustment
	Buzzer Control, Other

Block Diagram

I/F
UART
I2C
SPI

Power
VCC
GND

Internal circuit

Controller

Firmware

Touch Switch Parameter

Touch Switch Panel

LED

Drive Circuit

Key Scan
DATA x4
SEL x4

Power
VCC
GND

Internal circuit

Buzzer

Jumper

Dimensions (in mm)

※ ▨ Gasket

98.0 ±0.3
4-R 1.0
(3.0)
(5.0)
4.5 ±1.2
(19.0)
(5.0)
98.0 ±0.3
(3.8)
87.0 ±0.7
(5.0)
(5.0)
(19.0)
(5.0)
4-R 4.0
6.5 ±1.2

* (0.3)
1.8 ±0.2
(1.6)
(5.3)
16.0 MAX.
6.5 ±1.2
(13.5)
(27.0)
85.0 ±0.7
6.5 ±1.2
B9B–XH–A
B10B–XH–A

Cross Section

Gasket

To Host

PCB

Ribs

LED

Glass Surface

Chassis
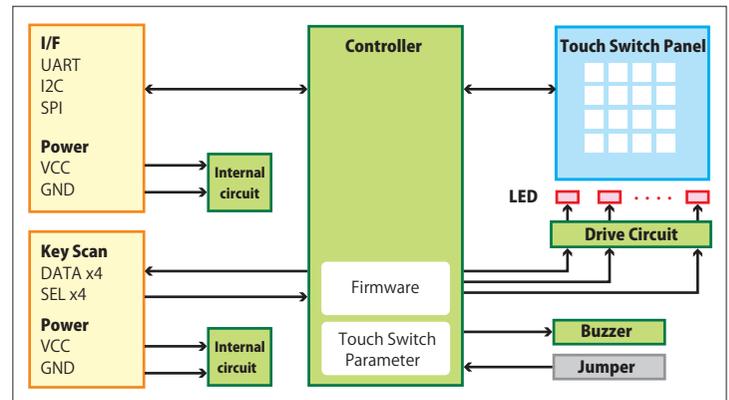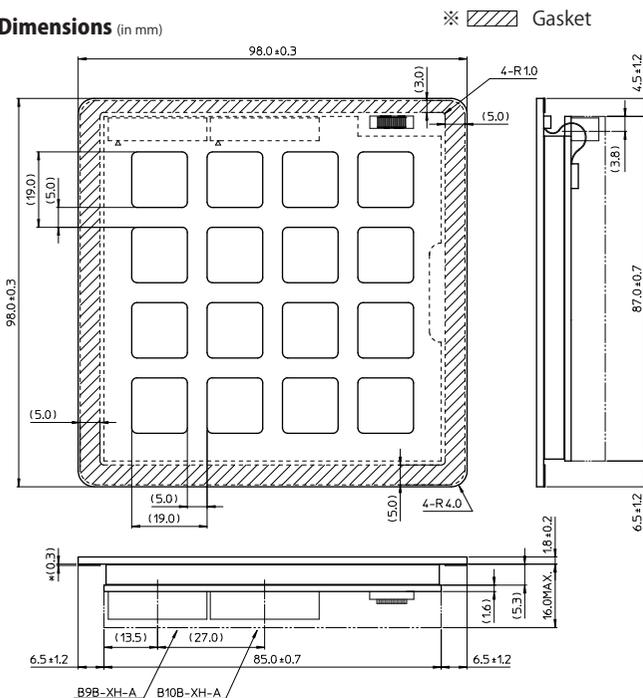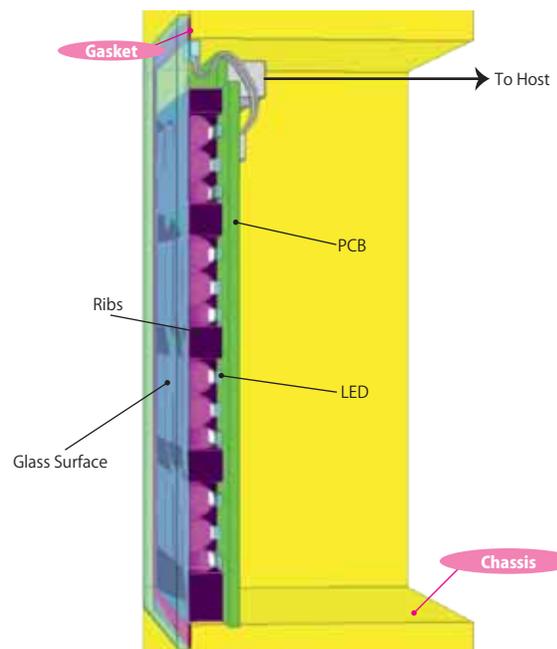
Noritake Co., Inc.
Electronics Division Headquarters
marketing.ele@noritake.com

New Jersey Branch
East Coast
Toll free: (888) 296-3423

Chicago Branch
Midwest, Canada, and Mexico
Toll free: (800) 779-5846

Los Angeles Branch
West Coast
Toll free: (888) 795-3423

CONTACT