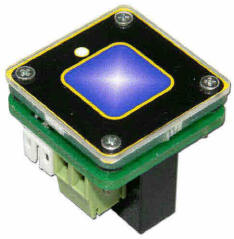
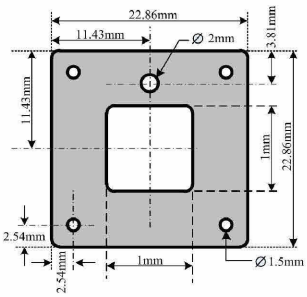
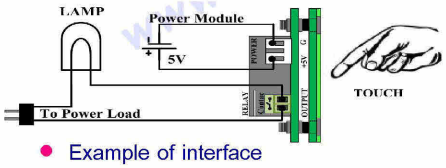
## ET-TOUCH PAD1 RELAY-TOGGLE
**(P-ET-A-00535)**





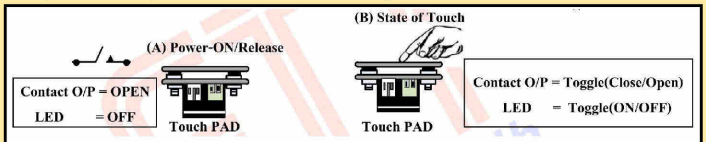




- Example of interface

**ET-TOUCH PAD1 RELAY-TOGGLE** is 1-Touch Key Board that has OUTPUT as CONTACT RELAY Type.

- Be 1-Capacitive Touch Key
- Use CHIP No.IQS127D from AZOTEQ to detect touching
- Have LED to display state of touching KEY
- Use RELAY 5VDC as CONTACT RELAY 5A(30VDC), 5A(220VAC)
- Use Connector as TERMINAL SCREW 2 PIN
- Connector of 5VDC POWER SUPPLY for Board is WAFFER 2PIN (2.00mm)/Current MAX 43mA
- Board size: 22.86 x 22.86 mm. and 21.43mm in height
- The package includes

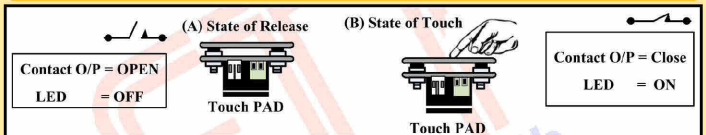
1. Board 2. Document 3. Connector HOUSING FEMALE 2PIN and crimp terminal (Connector POWER 5VD)




State of Power-ON/Release: POWER ON CONTACT RELAY is disconnected or OPEN, LED is off.
State of Touch: Finger touches the TOUCH PAD, the CONTACT RELAY and LED will be changed to the contrary that are different from the recent state (Push-ON/Push-OFF).

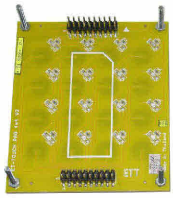
## ET-TOUCH PAD1 RELAY-ACTIVE
**(P-ET-A-00536)**

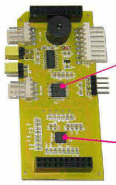
**ET-TOUCH PAD1 RELAY-ACTIVE**
Format of Board ET-TOUCH PAD1 RELAY-ACTIVE is similar to Board ET-TOUCH PAD1 RELAY-TOGGLE, except operational format of RELAY that is Push-ON/Release-OFF.

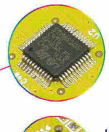



State of Touch: When finger touches the TOUCH PAD, the CONTACT RELAY is connected and LED is ON; but, when it is not touched by finger, the CONTACT RELAY is disconnected and LED is OFF (Push-ON, Release-OFF).

## ET-TOUCH PAD 4 x 4 V2
**(P-ET-A-00516)**





MCU # STM8S105C4 is Controller and communicates between IQS316 and external devices.

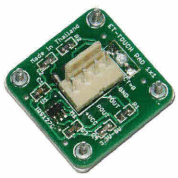
IC KEY TOUCH, especially No.IQS316 from AZOTEQ, reduces signal noises well.

**ET-TOUCH PAD 4x4 V2** is the latest Board TOUCH KEY that is developed and improved from the initial model "ET-TOUCH PAD 4x4"; it reduces signal noises that occurred because of the operation and it increases more connection and use conveniently.

- Be 16-KEY CAPACITIVE SENSING TOUCH PAD (4x4)
- Use IC No.IQS316 from AZOTEQ that is specially designed as KEY TOUCH, it reduces signal noises well
- Use MCU No.STM8S105C4 to be Controller and communicate between IQS316 and external devices
- Use 3.3VDC - 5VDC Power Supply for Board
- Show the status of pressing KEY by sound (BUZZER) and 16-LED on position of individual KEY SW.
- Set ON/OFF BUZZER and all 16-LED of individual KEY by JUMPER
- Have 2 types of OUTPUT for sending the pressed KEY CODE as follows;
  - BINARY CODE (BCD 8421): It is sent through CONNECTOR 8 PIN; Signal TTL is connected with 3.3V – 5.0V.
  - ASCII CODE: It is sent through CONNECTOR RS232. There are 2 types of RS232 for this model V2; RS232 TTL 4 PIN and RS232 with LINE DRIVER 4 PIN. It sets BAUSD RATE for sending data as 9600 bit/s.
- Have 1 special KEY; it can be used either to be normal KEY or KEY SHIF
- Key Touch Pad is made from translucent plastic with 2mm. thick
- Board size: 76.2 x 88.9 mm. (the same size as the initial model "ET-TOUCH PAD 4x4")
- **ET-TOUCH PAD 4x4 V2** includes...

1. Board ET-TOUCH PAD 4x4 V2
2. CD-ROM Manual and Example Programs

## ET-TOUCH PAD 1 x 1 (P-ET-A-00517)



ET-TOUCH PAD 1x1 is Board TOUCH KEY as 1 separate TOUCH KEY; so, it is more convenient because it can fit properly into any project as required.

- Be CAPACITIVE SENSING 1-KEY TOUCH
- Use IC No.IQS127D from AZOTEQ for TOUCH Detection
- Have LED to show STATUS of TOUCH
- Use Connector 4PIN WAFER MALE 2.54 mm. that consists of PIN VDD (3.3V-5VDC), POUT, TOUT and GND
- Use Signal OUTPUT TTL. When it is normal status, the value of POUT, TOUT is LOGIC 1. When it is in the status of PROXIMITY POUT, the value is LOGIC 0. And, when it is in the status of TOUCH completely, the value of TOUT becomes LOGIC 0.
- Use 3.3V-5.0VDC Power Supply for board
- Board size: 22.86 x 22.86 mm. with transparent plastic with 1mm thick