



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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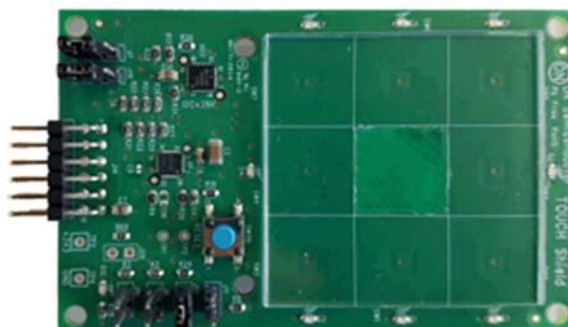
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TS-GEVB: Touch Switch Shield Evaluation Board



The touch switch shield evaluation board demonstrates the LC717A00AR which is a high-performance, low-cost capacitance-digital-converter LSI for electrostatic capacitive touch sensor, especially focused on usability. It has 8 channels capacitance-sensor input. The built-in logic circuit can detect the state (ON/OFF) of each input and output the result. This makes it ideal for various switch applications. The calibration function is automatically performed by the built-in logic circuit during power activation or whenever there are environmental changes. In addition, since initial settings of parameters, such as gain, are configured, LC717A00AR can operate in stand-alone mode when the recommended switch pattern is applied. Since LC717A00AR has a serial interface compatible with I2C and SPI bus, the PCA9655E is used to provide provides 16 bits of General Purpose parallel Input and Output (GPIO) expansion through the I2C-bus and SMBus, detecting outputs of the LC717A00AR's 8-input capacitance data and measuring it as 8-bit data.

Evaluation/Development Tool Information

| Product | Status | Compliance | Short Description | Parts Used |
|--------------------------------|--------|------------|--------------------------------------|---|
| <u>TS-GEVB</u> | Active | Pb-free | Touch Switch Shield Evaluation Board | <u>LC717A00AR-NH</u> , <u>PCA9655EMTTXG</u> |