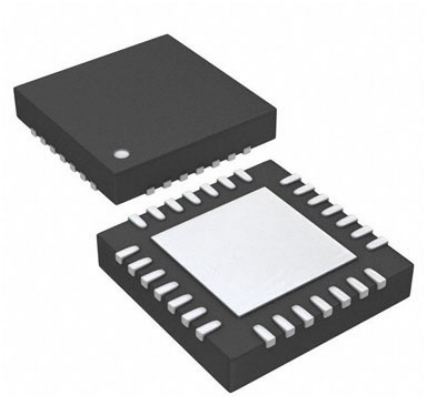


Capacitive Touch Sensor, I2C, 1.8 V, 5.5 V, QFN, 28 Pins, -40 °C

Manufacturers	Microchip Technology, Inc
Package/Case	VQFN-28
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for AT42QT1060-MMUR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Sensor IC designed to simplify and speed the development of mobile and other applications. It provides all of the functions needed to create a fully functional touch interface for mobile phones and handheld devices. Based on Microchip QTouch technology, this IC integrates the required signal processing and input/output functions into a 28-pin, 4mm by 4mm RoHS compliant package. It includes a guard channel to prevent false detections by other keys. Its LEDs are directly powered by the IC, eliminating the need for an external LED controller.

Features

Configurations: Can be configured as a combination of keys and input/output lines

Number of QTouch® Keys: Two to six

Number of I/O Lines: Seven, configurable for input or output, with PWM control for LED driving

Technology: Patented spread-spectrum charge-transfer (direct mode)

Key Outline Sizes: 6 mm x 6 mm or larger (panel thickness dependent); widely different sizes and shapes possible

Layers Required: One

Electrode Materials: Etched copper, silver, carbon, Indium Tin Oxide (ITO)

Panel Materials: Plastic, glass, composites, painted surfaces (low particle density metallic paints possible)

Panel Thickness:

Up to 10 mm glass (electrode size dependent)

Up to 5 mm plastic (electrode size dependent)

Key Sensitivity: Individually settable via simple commands over serial interface

Interface: I2C-compatible slave mode (100 kHz). Discrete detection outputs

Moisture Tolerance: Increased moisture tolerance based on hardware design and firmware tuning

Signal Processing:

Self-calibration

Auto drift compensation

Noise filtering

Adjacent Key Suppression® (AKS®)

Applications: Mobile appliances

Power: 1.8 V to 5.5 V

Package: 28-pin 4 x 4 mm QFN RoHS compliant IC

Related Products



[ATA6563-GAQW0](#)

Microchip Technology, Inc
SOIC-8



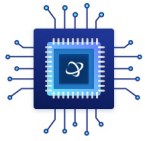
[AT42QT1040-MMHR](#)

Microchip Technology, Inc
VQFN-20



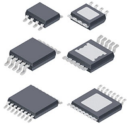
[AT30TSE004A-MAA5M-T](#)

Microchip Technology, Inc
WDFN-8



[ATMEGA808-MU](#)

Microchip Technology, Inc



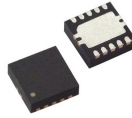
[ATTINY3226-SU](#)

Microchip Technology, Inc
SOIC



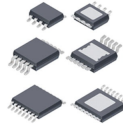
[AT30TS74-SS8M-T](#)

Microchip Technology, Inc
SOIC-8



[ATSAMC21G17A-MZTVAO](#)

Microchip Technology, Inc
VQFN



[ATTINY3224-SSU](#)

Microchip Technology, Inc
SOIC