

Capacitive Touch Sensor, Qtouch®, 1.8 V, 5.5 V, UDFN, 8 Pins, -40 °C

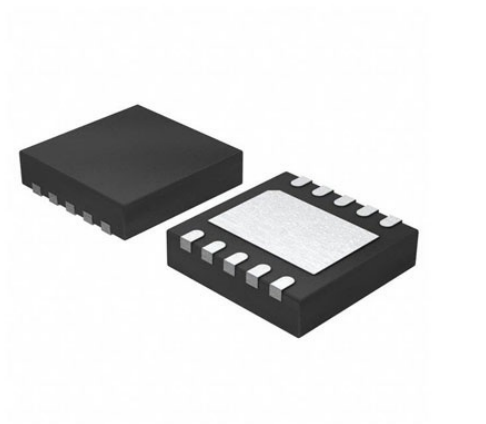
Manufacturers [Microchip Technology, Inc](#)

Package/Case UDFN-8

Product Type Integrated Circuits (ICs)

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for AT42QT1010-MAHR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AT42QT101x Single Key capacitive touch controller family provides an easy way to add a touch key to any application. It implements advanced filtering algorithm to offer robust operation in noisy environment. Sensitivity and low power modes can be configured as well.

The AT42QT1010 has "maximum on" touch duration of ~ 60s. The device output will then go low and a subsequent touch event can be detected.

The AT42QT1011 output will remain high as long as a touch is detected. No "Max On" time out.

The AT42QT1012 has touch-on/touch-off (toggle) functionality and a Auto Off timer to save on power consumption.

Features

Number of Keys: One – configurable as either a single key or a proximity sensor

Key outline sizes: 6 mm × 6 mm or larger (panel thickness dependent); widely different sizes and shapes possible

Electrode design: Solid or ring electrode shapes

PCB Layers required: One

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

Panel thickness: Up to 12 mm glass, 6 mm plastic (electrode size and Cs dependent)

Key sensitivity: Settable via capacitor (Cs)

Power consumption: 17 μ A at 1.8 V typical

Applications: Control panels, consumer appliances, IoT, proximity sensor applications, toys, lighting controls, mechanical switch or button replacement

Related Products



[ATA6563-GAOW0](#)

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SOIC-8



[AT42QT1040-MMHR](#)

Microchip Technology, Inc
VQFN-20



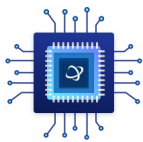
[AT30TSE004A-MAA5M-T](#)

Microchip Technology, Inc
WDFN-8



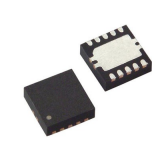
[AT30TS74-SS8M-T](#)

Microchip Technology, Inc
SOIC-8



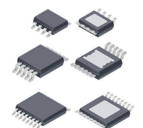
[ATMEGA808-MU](#)

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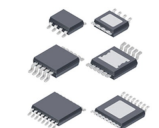
[ATSAMC21G17A-MZTVAO](#)

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VQFN



[ATTINY3226-SU](#)

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[ATTINY3224-SSU](#)

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