

## Capacitive Touch Screen Automotive 28-Pin SSOP T/R

**Manufacturer:** [Microchip Technology, Inc](#)

**Package/Case:** SSOP28

**Product Type:** Drivers

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** NRND

MTCH6102T-I/SS Image

Images are for reference only

[Inquiry](#)

### General Description

Microchip's MTCH6102 is a turnkey projected capacitive touch controller that simplifies adding gestures to touch interface designs with industry-leading low power performance. Utilize up to 15 channels to support taps, swipes, and scrolling on XY touch pads and touch screens. The MTCH6102 allows designers to quickly and easily integrate projected capacitive touch into their cost sensitive, low power application. The MTCH6102 provides developers with a flexible touch sensing solution to optimize common constraints of size, power and cost that are critical to applications such as wearable devices, remote controls, gaming devices and track pads.

## Key Features

Touch Sensor Support

Up to 15 total channels

Sensor sizes up to 120mm (4.7")

Individual channel tuning for optimal sensitivity

Works with printed circuit boards (PCB) sensors, film, glass, and flexible printed circuits (FPC) sensors.

Cover layer support:

Plastic: up to 3 mm

Glass: up to 5 mm

Touch Performance

12-bit resolution coordinate reporting

Touch Features

Gesture detection and reporting

Self capacitance signal acquisition

Multiple built-in filtering options

Power Management

Configurable sleep/idle framerates

Standby mode <500nA (typical)

Active mode <12uA possible

Communication Interface

I2C (400kbps)

Both polling and interrupt schemes supported

Sync signal allows for host frame detection

Field upgradable over I2C

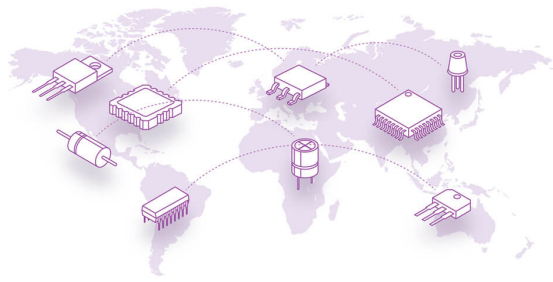
Operating Conditions

1.8V to 3.6V

Package Types

28 Pin SSOP

28 Pin UQFN



## Recommended For You

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### **MITCH6301T-I/ML**

Microchip Technology, Inc  
QFN44

### **MITCH6303-I/PT**

Microchip Technology, Inc  
QFP64

### **MITCH6301-I/ML**

Microchip Technology, Inc  
QFN44

### **MITCH6303T-I/RG**

Microchip Technology, Inc  
64-VFQFN

### **MITCH6303-I/RG**

Microchip Technology, Inc  
QFN64

### **MITCH6301-I/PT**

Microchip Technology, Inc  
TQFP44

### **MITCH6102-I/SS**

Microchip Technology, Inc  
SSOP28

### **MITCH6303T-I/PT**

Microchip Technology, Inc  
64-TQFP

### **CAP1298-I-SL-TR**

Microchip Technology, Inc  
SOIC-14

### **CAP1126-I-AP-TR**

Microchip Technology, Inc  
QFN16

### **CAP1208-I-SL**

Microchip Technology, Inc  
SOP14

### **AT42QT12160-MMU**

Microchip Technology, Inc  
QFN28

### **AT42QT1070-SSUR**

Microchip Technology, Inc  
SOP14

### **CAP1203-I-SN**

Microchip Technology, Inc  
SOP8

### **CAP1203-I-SN-TR**

Microchip Technology, Inc  
SOP8