


Capacitive Touch Screen 12 Key 20-Pin VQFN EP Tray

Manufacturer:	Microchip Technology, Inc
Package/Case:	VQFN20
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

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General Description

The Microchip's AT42QT2120 is a capacitive touch controller with 12 configurable Microchip QTouchADC buttons, sliders and wheels. The QTouchADC sensing algorithm (self capacitance) enables the user to achieve longer-range proximity sensing. This capability makes the device ideal for any type of proximity-sensing application, including wake-up, thermostat, TV controls, wireless mouse, etc. This reduces the total power consumption of your device and results in a more intuitive and differentiated user interface.

The button sensors can be constructed in a variety of shapes and sizes. The device includes all the necessary signal processing functions required to provide stable sensing under a wide variety of changing conditions and frequencies (conducted immunity certified to EN61000-4-6 Level 2B).

The QTouchADC sensing algorithm enables superior sensing because of faster acquisition times and shorter burst lengths. This algorithm is utilized in the new Microchip AT42QT2120 touch controller, as well in the Microchip QTouch Library in the Microchip ATtiny20 and ATtiny40 devices. In addition to providing the industry's best proximity range, QTouchADC removes the need for any external components per sensing channel and reduces the pins to 1-pin-per-channel.

Recommended For You

AT42QT2160-MMU

Microchip Technology, Inc
QFN28

AT42QT1070-SSUR

Microchip Technology, Inc
SOP14

AT42QT1011-MAH

Microchip Technology, Inc
UDFN-8

AT42QT1110-MU

Microchip Technology, Inc
QFN

AT42QT2120-XU

Microchip Technology, Inc
20LTSSOP

AT42QT1110-AU

Microchip Technology, Inc
QFP

AT42QT1060-MMU

Microchip Technology, Inc
QFN-28

AT42QT12161-MMU

Microchip Technology, Inc
QFN

AT42QT1110-MUR

Microchip Technology, Inc
QFN32

QT60240-ATG

Microchip Technology, Inc
QFP

AT42QT1244-MUR

Microchip Technology, Inc
VQFN

AT42QT1481-AN

Microchip Technology, Inc
TQFP-44

AT42QT1481-ANR

Microchip Technology, Inc
TQFP

AT42QT1085-AU

Microchip Technology, Inc
TQFP7x7

AT42QT1085-MU

Microchip Technology, Inc
VQFN5x5