

QTouchADC for BSW & Proximity Detection

Manufacturers	Microchip Technology, Inc
Package/Case	TSSOP-20
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for AT42QT2120-XUR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

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.

Related Products



[ATA6561-GAQW](#)

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QFN-16



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[ATA6563-GAQW1](#)

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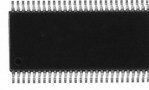
[ATA6561-GBQW-N](#)

Microchip Technology, Inc
8-VDFN



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[ATA6560-GAQW-N](#)

Microchip Technology, Inc
8-SOIC (0.154, 3.90mm Width)