



ATMEL - EVK1040A - EVK1040A Evaluation Kit

Product Overview:

The EVK1040A allows the user to evaluate all functions of the AT42QT1040 touch sensor controller. The kit provides a convenient reference design and allows the user to visualize discrete touch buttons and LEDs for per channel touch indication. There are movable jumpers on the board so that the Adjacent Key Suppression® (AKS®) functionality and speed settings can be evaluated. The EVK1040A is battery powered and works stand-alone. Connections are included on the board which can be used to access debug data from the chip.



Kit Contents:

The EVK1040A Evaluation Kit contains the hardware essentials you will need to use the Kit. The items in the Evaluation Kit and their use are as follows.

- 1x EVK1040A Assembly
- 1x CR2032 Battery, 3V, 235mAh
- 2x Sample AT42QT1040-MMH ICs
- 1x EVK1040A User Guide

Key Features:

- 4-channel touch sensor IC
- 4 outputs for per-channel touch indication
- Low operating voltage 1.8 to 5.5 V
- Ultra-low power consumption
- 2 response speed settings
- AKS mode
- Debug output provided to aid design
- RoHS-compliant package

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
EVK1040A	Atmel	1715522	15R1545

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
AT42QT1040-MMU	Atmel	Qtouch 4-key Sensor IC	1748487	26R5669

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
EVK1060A	Atmel	EVK1060A Evaluation Board	AT42QT1060	1715523	15R1546
EVK2160A	Atmel	EVK2160A Evaluation Board	AT42QT2160	1715524	15R1547
DEMOMPR031	Freescale	Demo board for MPR031	MPR03X	1692725	26R2641
KITMPR03XEVM	Freescale	KITMPR03XEVM Evaluation Kit	MPR03X	1692726	26R2784
CY3218-CAPE XP3	Cypress	CapSense Express Evaluation Kit	CY8C20142	1601049	11N4462
DM164125	Microchip	PICDEM Touch Sense 1 Development Kit	PIC16F677, PIC16F887	1547488	78M5155
STEVAL-IFP004V1	ST	STEVAL-IFP004V1 Digital input termination PCLT2	PCLT2	1694057	45P5437
CAPTOUCHSENSEK	Silicon Labs	Capacitive Touch Sense Starter Kit	C8051F931	1558938	94M6556

Document List:

Datasheets:

Part Number	Description	Size
AT42QT1040	Qtouch 4-key Sensor IC AT42QT1040	306KB

Application Notes:

File Name	Size
ANKD01_QMatrix Panel Design Guidelines	427KB
ANKD02_Secrets of a Successful Qtouch Design	424KB
ANKD03_Using Philipp Springs to Create Touch Keys	205KB
QTAN0015_Power Supply Considerations for Atmel Capacitive-touch ICs	65KB
QTAN0016_Diagnostic Modes for Products with Atmel Capacitive-touch ICs	67KB
QTAN0017_Check the Effects of External Noise on Atmel Capacitive-touch ICs	273KB
QTAN0030_Implementing a Long Slide Control Using a QMatrix IC	721KB
QTAN0031_Avoiding False Touch Inputs Using Atmel Capacitive Touch Sense ICs	245KB

Others Resources:

File Name	Size
Touch Sensors Design Guide	1.18MB
QMatrix Technology White Paper	388KB