ATMXT336UD ☆

Status: In Production

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Features:

- IEC/UL 60730 Class B Certified (mXT336UD-MAUHA1 only)
- IEC 61000-4-6, 7Vrms, Class A (normal touch operation) conducted noise immunity
- Scaled Deltas (remove false touches while cleaning with bleach or Windex)
- Supports multi finger thick glove (5mm) touch
- Supports thick lenses up to 10mm glass
- Adaptive Sensing (Self and Mutual cap)

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Functional Safety Ready

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Device Overview

Summary

The ATMXT336UD touchscreen controller family has 2 derivatives and is aimed at display sizes up to 7-inch used in Industrial, Appliance or medical designs. Proprietary differential touch sensing delivers unparalleled noise immunity ensuring superior touch performance even in harsh environments. It enables detection and tracking of multi-finger thick gloved touch through a wide variety of overlay materials and thicknesses, even in the presence of moisture, water and even salt water. This SNR combined with a high acquisition speed provides a fast, accurate and reliable a touch position. The controller also incorporates a new self and sensor diagnostic function, which constantly monitors the integrity of the touch system.
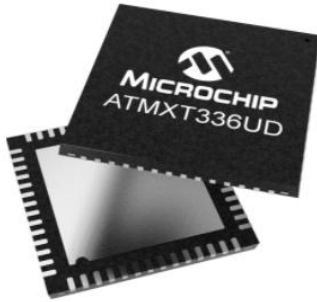
A derivative of the MXT336UD touchscreen family, the HA1 version is aimed at the home appliance market where Functional Safety is required. This device is IEC/UL 60730 certified and offers unique safety-related features that enable system shut off through an intuitive soft button on a touchscreen, removing the requirement for an external safety certified stop or cancel button and associated microcontroller (MCU). They also allow an appliance to detect a touchscreen or appliance failure and shut down automatically through a variety of self-test capabilities.

Support: off the shelf maXTouch standard modules are available to help shorten development time and reduce risk. Microchip also has a strong selection of factory trained global touch sensor module partners to help support custom touch sensor and/or touchscreen display designs.

Parametrics

Name	Value
Interface Type	I2C
Max Screen Size (Inch)	7.1
Touch Response	> 100 Hz
Temperature Range (degC)	-40 to 85
Number of Touches	10
Max Nodes Supported	336

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RoHS Information

Part Number	Device Weight (g)	Shipping Weight (Kg)	Lead Count	Package Type	Package Dimension	Solder Composition	JEDEC Indicator	RoHS	China EFUP
ATMXT336UD-MAUHA1	0.051300	0.506122	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAURHA1	0.051300	0.325250	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAU001	0.051300	0.506122	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAUR001	0.051300	0.325250	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAU300	0.051300	0.506122	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAUR300	0.051300	0.325250	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAUH01	0.051300	0.506122	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAURH01	0.051300	0.325250	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAUH02	0.051300	0.506122	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAURH02	0.051300	0.325250	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAU301	0.051300	0.506122	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAUR301	0.051300	0.325250	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAU302	0.051300	0.506122	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉
ATMXT336UD-MAUR302	0.051300	0.325250	56	XQFN	6x6x0.4mm	Matte Tin	e3	RoHS	◉

To see a complete listing of RoHS data for this device, please Click here
Shipping Weight = Device Weight + Packing Material weight. Please contact sales office if device weight is not available.

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