ATMXT3432S ☆

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mXT3432S

Status: In Production

Features:

- Fully automotive-qualified (Grade 3), operating within the temperature range of -40 to +85 deg C
- Supports up to 10 concurrent touches in real time with touch size reporting
- Communication via I2C or USB interfaces
- Integrated voltage doubler option to increase the signal to noise ratio (SNR)
- Supports glove (2mm) touch
- Support thick lenses (up to 2mm plastic)

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Device Overview

Summary

The Microchip's maXTouch® family, known for its superior performance and rich feature set, is now qualified for automotive applications. The mXT3432S-A is optimized for touchscreens up to 17.3" and enables single-layer shieldless designs. In addition to its superior performance, multi-touch functionality, faster response time, robust operation and lower power consumption, the new mXT3432S-A also provides embedded functionalities such as gesture calculation and filter algorithms that meet current automotive design requirements. Dedicated firmware and a high signal-to-noise ratio makes the device ideally suited for very noisy environments and provide full support for gloved-hand operation on automotive touchscreens.

Parametrics

Name	Value
Interface Type	I2C / USB
Max Screen Size (Inch)	17.3
Touch Response	>150Hz
Automotive Qualified	Yes
Temperature Range (deg C)	-40 to 85
Number of Touches	10
Max Nodes Supported	3432

Automotive Applications

Center stacks
Navigation systems

Please contact your local Microchip sales office for pricing information and to place an order.

Additional Features

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Packages: Master TQFP100; Slaves LQFP144