CYPRESS

AUTOMOTIVE TRUETOUCH® TOUCHSCREEN CONTROLLERS

PRODUCT OVERVIEW

CYPRESS BRINGS THE POWER OF TOUCH TO AUTOMOTIVE

The worldwide leader in capacitive touch technology now brings the power of the Cypress TrueTouch® portfolio to the automotive market. Cypress's best-in-class automotive touchscreen solutions enable next-generation cars with feature-rich applications for multi-touch touchscreens and trackpads.

Cypress offers the most comprehensive single-chip touchscreen portfolio for the automotive segment. It provides multi-touch gesture and multi-touch all-point support for screen sizes up to 11.6 inches. These solutions are geared to provide exceptional performance even in harsh environmental conditions.

UNPARALLELED FLEXIBILITY

The Cypress portfolio offers the best touch performance with advanced features and a range of solutions to meet the most challenging design requirements.

- Mountable on the FPC or directly on the PCB
- Supports PET or glass based designs with a variety of sensor stackups
- Supports screen sizes up to 11.6 inches
- Wide operating voltage range

FEATURES

BROAD PORTFOLIO

AEC Q100 QUALIFIED

TEMPERATURE RANGES

- Automotive: -40 °C to +85 °C
- Extended: -40 °C to +125 °C

UP TO 60 SENSORS WITH 884 SENSE NODES

SUPPORTS SCREEN SIZES UP TO 11.6 INCHES

TRACKS UP TO 10 FINGERS SIMULTANEOUSLY WITH NO GHOSTING

FAT FINGER DETECTION AND TRACKING

WET FINGER TRACKING

PALM REJECTION

SUPPORTS A VARIETY OF TOUCHSCREEN SENSORS AND STACKUPS

FAST STARTUP AND CALIBRATION

PROXIMITY DETECTION

GESTURE SUPPORT

Touchscreen Applications - Entertainment Systems, Navigation Systems, HVAC

www.cypress.com/go/automotive

CYPRESS PERFORM

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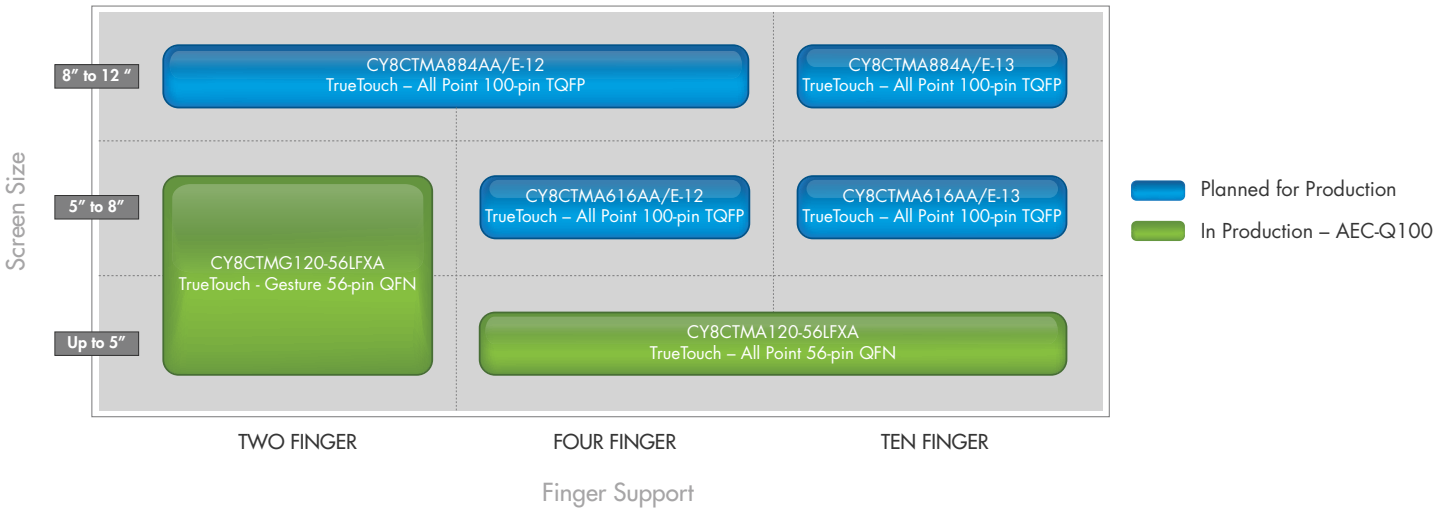
TrueTouch LARGE TOUCHSCREEN CONTROLLERS

With earlier generation devices already in series production, CY8CTMA884/616 is Cypress's latest single-chip offering for automotive touchscreen applications. TMA884 delivers up to 884-node, high-performance, projected-capacitance sensing for designs from 5.5 inches to 11.6 inches. It employs TrueTouch multi-touch all-points sensing to track up to 10 fingers simultaneously with no ghosting and 0.5-mm accuracy. Cypress TrueTouch controllers natively support advanced features like palm rejection, analog and digital filtering, and more.

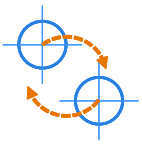


COMPLETE TOUCH SOLUTION

We provide more than just a touchscreen controller. With TrueTouch, you get the entire product solution: the controller, software, tools, design, and system-level expertise in one convenient package.

High-speed, high-accuracy touchscreen controllers

Supports character recognition on a trackpad



Gesture interpretation algorithms

Evaluation boards

PC GUI

GET STARTED NOW

To receive part information or submit requests, write to automotive_solo@cypress.com.

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