

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



Touchscreen Applications - Entertainment Systems, Navigation Systems, HVAC

### 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

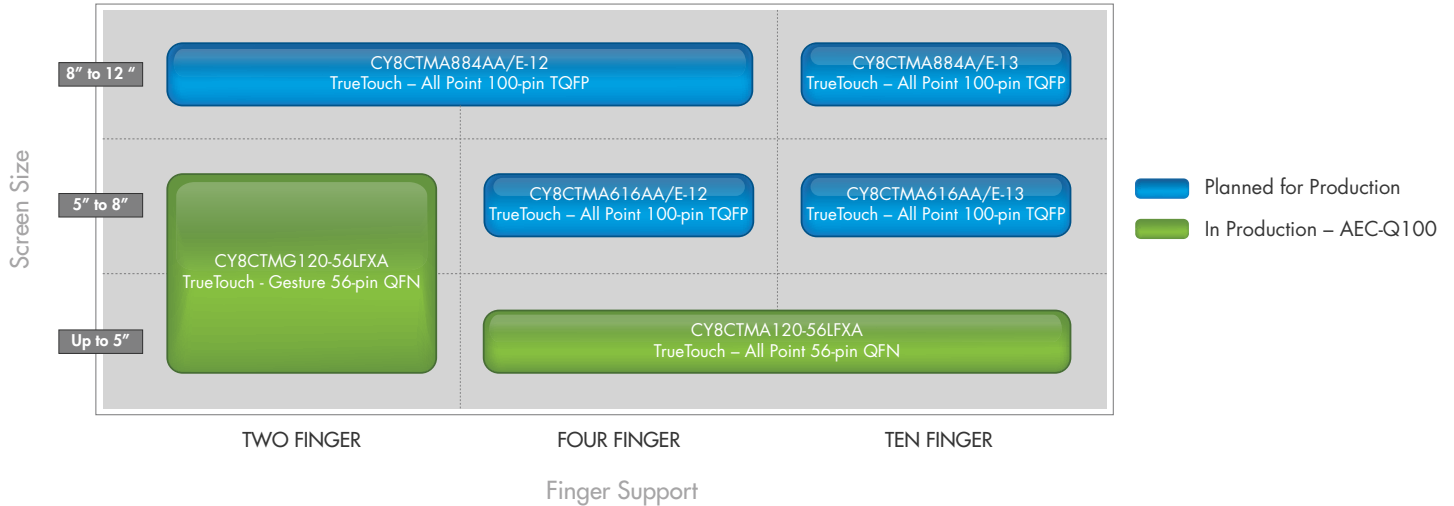
PROXIMITY DETECTION

GESTURE SUPPORT



## 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

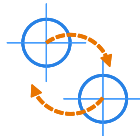
We provide more than just a touchscreen controller. With TrueTouch, you get the entire product solution: the controller, software, tools, design, and system-level expertise in one convenient package.



High-speed, high-accuracy  
touchscreen controllers



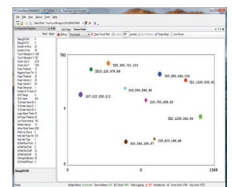
Supports character  
recognition on a  
trackpad



Gesture interpretation  
algorithms



Evaluation boards



PC GUI

## GET STARTED NOW

To receive part information or submit requests, write to [automotive\\_solo@cypress.com](mailto:automotive_solo@cypress.com).

### Cypress Semiconductor Corporation

198 Champion Court, San Jose CA 95134  
 phone +1 408.043.2600 fax +1 408-943-6848  
 toll free +1 800.858.1810 (U.S. only)

© 2011 - 2014 Cypress Semiconductor Corporation. All rights reserved. All trademarks are the property of their respective owners.  
 Doc#001-72057 Rev\*B 1114/KAUL/TONE/BENY

