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Continuity of ordering part numbers

Infineon continues to support existing part numbers. Please continue to use the ordering part numbers listed in the datasheet for ordering.

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THIS SPEC IS OBSOLETE.

Spec No: 001-91023

Spec Title: CY8CTMA340, TRUETOUCH(R) MULTI-TOUCH ALL-POINTS TOUCHSCREEN CONTROLLER - SUMMARY

Replaced by: None



SUMMARY

CY8CTMA340

TrueTouch[®] Multi-Touch All-Points Touchscreen Controller

Features

- TrueTouch® capacitive touchscreen controller
 - ☐ Tracks up to four fingers independently
 - □ Screen sizes up to 4.5" diagonal
 - Can support up to 7" diagonal with stretched sensor pitch
 - ☐ Up to 32 sense pins. Senses up to 252 intersections
 - □ Resistive stylus replacement
 - Passive stylus with 1-mm tip
 - □ Best in class water rejection no false touches
 - □ Large object detection
 - ☐ Fat finger detection and tracking
 - □ Charger Armor™ technology that provides battery charger noise immunity
 - □ Self-calibrating to environmental changes
 - □ Smart noise suppression in LCD, battery charger, common-mode, and RF environments
 - □ Android and Windows Phone Series 7 compliant
 - □ Supports unregulated dual-rail inputs
 - 1.71 V to 3.6 V digital supply voltage
 - 2.7 V to 3.6 V analog supply voltage
 - Supports single shared supply from 2.7 V to 3.6 V
- Performance
 - □ Best in class SNR
 - □ Noise-free resolution: 0.1 mm
 - □ Accuracy: 0.5 mm
 - □ Finger separation: 3.5 mm
 - □ >60-Hz Refresh Rate with up to four fingers on the touchscreen
 - □ Low-power state current less than 1.3 mA
 - □ Deep sleep state current of 1 µA

- Extended feature set
 - Best in class wet-finger tracking
 - □ Integrated CapSense button support
- Sensor and system design
 - Supports chip-on-flex and chip-on-board
 - □ Configurable to work with plastic film and glass touch sensors
 - □ Supports a variety of touchscreen sensors and stackups
- Communication interface
 - □ I²C slave up to 400 kHz
 - □ SPI slave with 2 Mbps sustained data throughput
- □ Field upgrades through integrated bootloader
- Host development kit (HDK)
 - Android and Windows Phone Series 7 drivers
 - Supports custom driver development
 - ☐ TrueTouch Host Emulator acts as host for early prototyping
- Manufacturing test
 - Integrated test firmware
- Package options
 - \square 36-pin 5 × 5 × 0.6 mm QFN
 - \square 48-pin 6 × 6 × 0.6 mm QFN
 - □ 49-ball 3.2 × 3.2 × 0.55 mm CSP

Cypress Semiconductor Corporation
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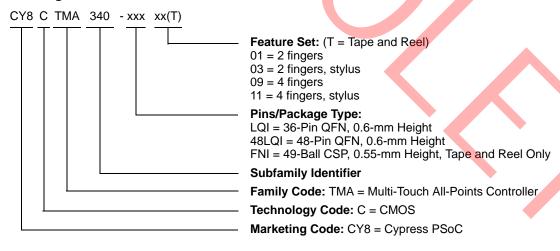
Ordering Information

Table 1 lists the TrueTouch Standard Product Multi-Touch All-Points Touchscreen Controllers. The table contains only the parts that are currently available. If you do not see what you are looking for, contact your local sales representative. For more information, visit the Cypress website at www.cypress.com/products.

Table 1. Device Ordering Information

					TrueTouch Sensor									ø					
Part Number	Max Screen Size (in.) (4:3 Aspect Ratio)	Maximum Nodes	Maximum Fingers	Ghost-Free Tracking	Charger Armor	Water Rejection	On-chip Gesture Decoding	Large Object Detection	Stylus	Glass	Film	Minimum Interface Voltage	Digital Supply Voltage Operating Range	Analog Supply Voltage Operating Range Voltage	Bootloader	l²c	SPI	Package	Unique ID
CY8CTMA340-LQI-11(T)	3.2	132	4	~	٧	~	~	V	~	~	~	1.8	1.71-3.6	2.7-3.6	~	~	~	36-pin QFN	058DH
CY8CTMA340-48LQI-11(T)	4.5	252	4	~	~	1	~	V	~	~	~	1.8	1.71-3.6	2.7-3.6	~	~	~	48-pin QFN	058EH
CY8CTMA340-LQI-09(T)	3.2	132	4	~	1	~	~	~	-	~	~	1.8	1.71-3.6	2.7-3.6	~	~	~	36-pin QFN	0590H
CY8CTMA340-48LQI-09(T) 4.5		252	4	~	1	~	~	V	-	~	~	1.8	1.71-3.6	2.7-3.6	~	~	~	48-pin QFN	0591H
CY8CTMA340-FNI-09T 4.5		252	4	~	~	V	~	~	-	~	V	1.8	1.71-3.6	2.7-3.6	~	~	~	49-pin CSP	0592H
CY8CTMA340-48LQI-03(T)	4.5	252	2	~	~	~	~	~	~	V	V	1.8	1.71-3.6	2.7-3.6	~	~	~	48-pin QFN	0597H
CY8CTMA340-48LQI-01(T)	4.5	252	2	~	~	V	~	V	-	V	~	1.8	1.71–3.6	2.7-3.6	~	~	~	48-pin QFN	059AH
CY8CTMA340-FNI-01T	4.5	252	2	~	>	V	~	V	/-/	~	~	1.8	1.71–3.6	2.7-3.6	~	~	~	49-pin CSP	059BH

Ordering Code Definitions





Document History Page

Document Title: CY8CTMA340, TrueTouch [®] Multi-Touch All-Points Touchscreen Controller Document Number: 001-91023											
Rev.	ECN	Orig. of Change	Submission Date	Description of Change							
**	4278978	SWU	02/12/2014	New summary datasheet.							

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