



## New Product Announcement

# Mouser Now Shipping Cypress' Quick Charge 4-Certified CCG3PA Controller for Fast Smartphone Charging

**June 19, 2018** – [Mouser Electronics](#), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [EZ-PD™ CCG3PA](#) USB Type-C and Power Delivery (PD) controller from [Cypress Semiconductor](#). Among the industry's first controllers to receive Qualcomm Quick Charge 4 certification, the CCG3PA controller supports fast charging of smartphones, tablets, notebook PCs, and power banks. The highly integrated controller reduces costs and simplifies designs, allowing for straightforward development of next-generation fast-charging applications and products.

The [Cypress EZ-PD CCG3PA](#) controller, available from Mouser Electronics, supports USB-C power source and dual-role power source/sink. Additionally, the controller fully supports the USB PD 3.0 Programmable Power Supply (PPS) specification, which allows smartphones to communicate with the charger to determine the ideal voltage and current levels. The controller's Quick Charge 4 certification also incorporates improved safety features to ensure fast charging without overheating.

The programmable CCG3PA controller includes an Arm® Cortex®-M0 microcontroller and 64 Kbytes of flash, enabling firmware upgrades that support future changes to fast charging standards. The one-chip device integrates several necessary components, including a 30V-tolerant regulator, high-voltage PFET gate drivers, VBUS-to-CC short protection, a VBUS and current sense amplifier, and hardware dedicated to legacy charger protocols. This advanced integration of the CCG3PA controller minimizes the bill-of-material costs associated with developing USB-C power source products.

The Cypress CCG3PA controller is supported by system-level electrostatic discharge (ESD) protection as well as dedicated overcurrent and overvoltage circuitry. Enabling the safe and reliable performance of fast charging applications, the integrated safety features defend against faulty operating conditions like power overloads. The speed and consistency of the CCG3PA controller allows for the design of [USB Type-C](#) power adapters for a broad range of applications including consumer electronics, power banks and vehicle chargers.

To learn more, visit [www.mouser.com/cypress-ez-pd-ccq3pa-usb-type-c](http://www.mouser.com/cypress-ez-pd-ccq3pa-usb-type-c).

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

### **About Mouser Electronics**

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 700 manufacturers. Mouser offers 23 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit [www.mouser.com](http://www.mouser.com).

### **About Cypress Semiconductor**

Cypress is the leader in advanced embedded system solutions for the world's most innovative automotive, industrial, smart home appliances, consumer electronics and medical products. Cypress' microcontrollers, analog ICs, wireless and USB-based connectivity solutions and reliable, high-performance memories help engineers design differentiated products and get them to market first. Cypress is committed to providing customers with the best support and development resources on the planet enabling them to disrupt markets by creating new product categories in record time.

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