Cypress Intros 6th Gen USB-C Controllers

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Cypress announces a pair of USB-C controllers for next-generation desktops and laptops-- the EZ-PD CCG6DF and EZ-PD CCG6SF, single-chip solutions featuring USB 3.2, DisplayPort and Power Delivery support.

The two controllers also support the upcoming USB4 standard, as well as the latest Intel Thunderbolt platforms. Both integrate multiple features from previous generation Cypress controller designs, such as a VBUS provider load switch for power with fault protection. An embedded 32-bit Arm Cortex-M0 processor allows firmware upgrades for USB4 support through 64KB of flash memory.

The USB4 standard promises data transfer rates of up to 40GB/s, with simultaneous USB 3.2, DisplayPort and PCIe support. Meanwhile the USB-C standard simultaneously powers devices and transmits data on the same cable. Power reaches up to 100W, enabling the consolidation of different interfaces on the same port. In addition, it supports multiple standards, including USB4, Thunderbolt, DisplayPort and HDMI, and includes a handy reversible connector.

The EZ-PD CCG6DF and EZ-PD CCG6SF controllers are sampling now in different configurations, including 96-pin BGA and 4-pin QFN packages.

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