

# Designing embedded applications that require high power and additional control capability

Make the most of EZ-PD™ PMG1-S3, a high-voltage MCU for USB-PD 3.1 EPR up to 140 W

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## Abstract

Infineon's [EZ-PD™ PMG1](#) family of high-voltage microcontrollers (MCUs) with USB-C Power Delivery (PD) provides an integrated solution for building embedded systems that supply/consume power to/from the high-voltage USB-C port and additionally need an MCU to implement the required product features.

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## Key learnings for the reader

- Learn how to develop integrated solutions using EZ-PD™ PMG1-S3 with support for USB-PD 3.1 Extended Power Range (EPR) up to 28 V at 5 A (140 W)
- EZ-PD™ PMG1-S3 expands the PMG1 family with 256 KB flash, 32 KB SRAM, 50 GPIOs, a full-speed USB device controller, a Crypto engine for authentication, and analog resources (ADC, OpAmp, comparators, CAPSENSE™)

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