SEGGER's emUSB-C PD turns the cable connection into smart tech

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SEGGER's [emUSB-C PD](#) is an embedded software library for managing the power delivery (PD) protocol. With emUSB-C PD, software can actively manage cable connections. This helps embedded system developers meet the requirement of an upcoming EU mandate. Devices sold in the EU, powered with less than 100 W, must have a USB Type-C charging port.

emUSB-C PD turns the cable into a smart connection, enabling the detection of the type of device connected, power supply capabilities, USB Host/Device software, and more.

SEGGER software to manage USB-C PD

emUSB-C PD

Specifically, devices that have rechargeable batteries benefit from the extra power that can be delivered via USB-C cables, charging faster. Having the cable communicate its capabilities ensures that optimum power is delivered while staying within cable specifications.

"With emUSB-C PD comes the ability to 'ask the cable' for information," says Dirk Akemann, Marketing Manager at SEGGER. "Questions like: 'Which way does the current flow?', 'How much power can the cable handle?', 'What is the state of charge of the battery?' can now be answered by the cable or the device at the far end. emUSB-C PD can be used with [emUSB-Host](#) and/or [emUSB-Device](#) or even with no USB stack at all. Maximum flexibility using one connection for everything!"

SEGGER's USB-C PD stack is designed to work on any embedded system with a USB-C PD controller. Divided into two layers, emUSB-C features an upper device-independent USB-C PD protocol layer and a target-dependent device driver layer. SEGGER can provide immediate delivery of a complete solution, top to bottom, with support for devices from ST's STM32H5xx and STM32U5xx device families; other device drivers are in preparation.

For more info see the [emUSB-C PD](#) page at [segger.com](#).

About SEGGER

SEGGER Microcontroller GmbH has three decades of experience in Embedded Systems, producing cutting-edge [RTOS and Software Libraries](#), J-Link and J-Trace [debug and trace probes](#), a line of [Flasher In-System Programmers](#) and [software development tools](#).

SEGGER's all-in-one solution [emPower OS](#) provides an RTOS plus a complete spectrum of software libraries including communication, security, data compression and

storage, user interface software and more. Using emPower OS gives developers a head start, benefiting from decades of experience in the industry.

SEGGER's professional embedded development software and tools are simple in design, optimized for embedded systems, and support the entire embedded system development process through affordable, high-quality, flexible and easy-to-use tools.

The company was founded by Rolf Segger in 1992, is privately held, and is growing steadily. SEGGER also has a U.S. office in the Boston area and branch operations in Silicon Valley, Shanghai and the UK, plus distributors on most continents, making SEGGER's full product range available worldwide.

For more information on SEGGER, please visit www.segger.com.

Why SEGGER?

In short, SEGGER has a full set of tools for embedded systems, offers support through the entire development process, and has decades of experience as the Embedded Experts.

In addition, SEGGER software is not covered by an open-source or required-attribution license and can be integrated in any commercial or proprietary product, without the obligation to disclose the combined source.

Finally, SEGGER offers stability in an often volatile industry, making SEGGER a very reliable partner for long-term relationships.

For additional information please visit: www.segger.com

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