

## SEGGER Announces High Performance Secure Shell Solution Targeted at Microcontroller-Based Systems

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SEGGER announces the introduction of its emSSH software library. This highly advanced package is intended for creating secure connections between a client and a server, typically over a TCP/IP connection.

Typical applications include secure remote controls, such as process monitors and the related sensors and actors. SSH is a requirement for the transfer of commands and data via a secure and encrypted connection.



emSSH includes all modules which are required for implementing secure shell (SSH) cryptographic networks. These are provided as source code, in order to allow complete control of the code being employed. This also delivers full transparency, thereby eliminating concerns about possible back doors or potential code weakness - neither of which can be checked via conventional precompiled libraries.

As with all SEGGER software, emSSH and the underlying crypto engine are designed from the ground up for incorporation into embedded systems. The crypto engine is flexible and can make use of hardware acceleration (if available), giving developers the capabilities needed for optimizing performance and throughput to a high degree. It comes with a simple, yet powerful application program interface (API) for greater user convenience.

emSSH is both hardware and transport independent. It integrates seamlessly with SEGGER's embOS/IP, as well as third party stacks, through the standard socket interface. Although SSH is usually associated with secure connections to a server using TCP/IP, an SSH session can secure any bidirectional channel, for instance a serial line or wireless link.

The emSSH library can be configured to fit any speed or size requirements. This means that user performance can be maximized while utilizing minimal memory footprint. Unused features can be excluded and additional features can easily be added. The complete software package is written in ANSI C and is both compiler and target independent.

To access more information on using the emSSH go to:

<https://www.segger.com/emssh.html>

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### About SEGGER

**SEGGER Microcontroller** develops and distributes hardware and software development tools as well as software components for embedded systems. An "embedded system" is one in which a microprocessor and associated components are incorporated into a device helping to accomplish difficult and complex tasks in products such as cell phones, medical instruments, instrument clusters, measurement instruments, satellite radios, digital cameras etc.



SEGGER was founded in 1997, is privately held, and is growing steadily. Based in Hilden with distributors in all continents and a local office in Massachusetts, SEGGER offers its full product range worldwide.

SEGGER software products include: embOS (RTOS), emWin (GUI), emFile (File System), emUSB (USB host and device stack) and embOS/IP (TCP/IP stack). With emSecure, a unique software to generate and verify digital signatures, and the TLS-solution emSSL, SEGGER is also offering software for the growing field of data and product security.

With the experience in programming efficiently on embedded systems, SEGGER created highly integrated, cost-effective programming and development tools, such as the Flasher (stand-alone flash programmer) and the industry leading J-Link/J-Trace emulator.

SEGGER cuts software development time for embedded applications by offering affordable, high quality, flexible and easy-to-use tools and software components allowing developers to focus on their applications. Find out more at [www.segger.com](http://www.segger.com)

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