

SEGGER introduces emWeb, the portable web server

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SEGGER's emWeb web server is an easy way to provide a browser interface to any kind of device, service or software module. Written entirely in C, it easily integrates into any existing application on embedded devices, tablets / cell phones or host computers running Windows, Linux or macOS. The advantages of this approach are clear: the device or application can be monitored and controlled in real time from any other device using a browser, no application needs to be provided to the end customer, engineering efforts can be kept to a minimum.

emWeb makes use of HTTP, a widely established standard, as the underlying base for the user interface. This makes it very portable and accessible. The only requirement is a browser, no drivers are needed to support access on any operating system. The user interface can be scaled depending on resources and requirements from traditional basic HTML to sophisticated modern interfaces using Javascript, Ajax, SSE, Websockets and more.

Even devices without traditional interfaces, such as Ethernet or WiFi are able to make use of the universal user interface provided by emWeb. With IP-over-USB technology, SEGGER provides a state-of-the-art solution for USB devices to be configured, accessed, and monitored through a universal browser UI. Design only a single UI that will work on any end user device.

emWeb has a very small memory footprint, which also makes it an ideal fit to be used in embedded devices, even resource constrained single-chip, microcontroller based devices. SEGGER uses this technology in many of its own products, such as the J-Link, the J-Link PC software, the Flasher and Flasher ATE products.

To access more information on emWeb, please go to:

<https://www.segger.com/products/connectivity/emweb-server/>

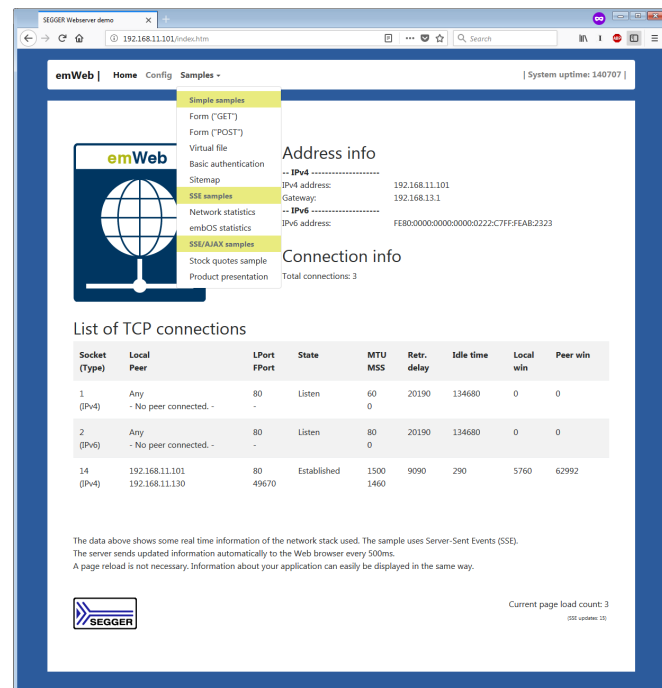
For more information on IP-over-USB, please consult:

<https://www.segger.com/products/connectivity/emusb-device/add-ons/ip-over-usb/>

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About SEGGER

SEGGER Microcontroller is a full-range supplier of software, hardware and development tools for embedded systems. The company offers support throughout the whole development process with affordable, high quality, flexible and easy-to-use tools and components. SEGGER offers solutions for secure communication as well as data and product security, meeting the needs of the rapidly evolving Internet of Things (IoT). Rolf Segger has founded the company in 1992. The company is growing steadily. Headquartered in Germany with a US office in the Boston area and distributors in all continents, SEGGER offers its full product range worldwide. For additional information, visit: <https://www.segger.com>



The screenshot shows the emWeb web server interface in a browser window. The page title is "emWeb | Home Config Samples". The system uptime is 140707. The interface includes a navigation menu with options like "Simple samples", "Form (GET)", "Form (POST)", "Virtual file", "Basic authentication", "Sitemap", "SSE samples", "Network statistics", "emBOS statistics", "SSE/JAAX samples", "Stock quotes sample", and "Product presentation". The "Address info" section displays IPv4 and IPv6 addresses, gateway, and IPv6 address. The "Connection info" section shows "Total connections: 3". Below this is a "List of TCP connections" table:

Socket (Type)	Local Peer	LPort	FPort	State	MTU	MSS	Retr. delay	Idle time	Local win	Peer win
1 (IPv4)	Any - No peer connected.	-	80	Listen	60	0	20190	134680	0	0
2 (IPv6)	Any - No peer connected.	-	80	Listen	80	0	20190	134680	0	0
14 (IPv4)	192.168.1.101 192.168.1.130	80	49670	Established	1500	1460	9090	290	5760	62992

Below the table, there is a note: "The data above shows some real time information of the network stack used. The sample uses Server-Sent Events (SSE). The server sends updated information automatically to the Web browser every 500ms. A page reload is not necessary. Information about your application can easily be displayed in the same way." The current page load count is 3.



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