



## **Elprotronic Inc. Announces the Release of a New SECURE GangFlasher-ST Gang Flashing for STM32MP1 Series MPUs is now Secured**

*New Secure GangFlasher-ST Delivers Faster Download Speeds to STM32MP1 Users with Full Secure Protection of Customer's Intellectual Properties*

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**ONTARIO, Canada** - [Elprotronic Inc.](#) announced today the release of its new Secure GangFlasher-ST software using STM32 Secure Secret Provisioning (**SSP**). Now, Elprotronic's latest technology provides programming speeds of up to 40 MBytes/s per target while also protecting and securing the code for STM32MP1 customers and other STM32 devices on the way. The GangFlasher-ST programs up to **8 devices** simultaneously at high speed, and provisions secrets using STM32HSM.

"We are happy to continue our working relationship with STMicroelectronics by supporting STM32 Secure Secret Provisioning (SSP). This support ensures our customers' peace of mind, as it gives protection mechanisms to their firmware; safely protecting critical operations (such as cryptography algorithms) and critical data (such as secret keys) against unexpected access or flash-downloads," said Gregory Czajkowski, CEO of Elprotronic Inc.

Using only Software and a USB cable, the new Secure GangFlasher-ST is an exciting technology offering that allows large embedded applications to be flashed at speeds **10-20 times faster** than previously possible using standard USB-DFU or JTAG programming. Now with added support for SSP, the GangFlasher-ST also protects the OEM's (customer's) secrets from access without authorization by any contract manufacturer and/or being extracted or disclosed.

"Elprotronic's adoption of our STM32MP1 Secure Secret Provisioning benefits customers eager to protect their software IP with increasing memory footprints. Their new secure high-speed flashing in the GangFlasher-ST adds a valuable resource to the broad STM32MP1 ecosystem, which also uses the STM32HSM to protect against counterfeited or clone products," said Laurent Hanus, Ecosystem Marketing Manager, STMicroelectronics.

The STM32MP1 MPU family from ST features a full-fledged Linux distribution. The GangFlasher-ST software is available from Elprotronic for Windows 10 (x64), Ubuntu Linux (amd64), Raspbian Linux (armhf), and macOS (m2), supporting eMMC, NOR/NAND SD cards, SPI-NAND, and OTP memory. Elprotronic's latest Secure GangFlasher-ST for the STM32MP1

MPU takes advantage of the associated hardware security module (**STM32HSM**) to allow customers to:

- Program and verify the STM32MP1 device certificate that is used to secure the STM32MP1 series device.
- Securely store an OEM AES secret key and nonce.
- Ensures a built-in quota system that controls the number of programmed STM32MP1 series devices.

The new Secure GangFlasher-ST tool is available now and users can try a free evaluation version by downloading a 15-day trial license from : [GangFlasher-ST](#)

For more information about Elprotronic, an ST Authorized Partner, please see <http://www.elprotronic.com/ST>

For more information about STM32MP1, please see <http://www.st.com/stm32mp1>



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**Background info about Elprotronic GangFlasher-ST**

Supporting standard software package solutions, the GangFlasher-ST will automatically create the partition table and program all the partitions according to the standard TSV file. After programming, the device is ready to boot independently. Most importantly, the GangFlasher-ST fast-bootloader technology seamlessly supports new custom boards.

Elprotronic high-speed flashing technology is geared towards production and is available in Gang Programming mode right out of the box. In addition to high speed, the GangFlasher-ST can program up to 8 target boards at the same time. On the customer side, up to two PCI USB extension cards (<\$100 each) may be acquired to connect more USB devices per computer, as necessary. The existing market standards of 1-2 MBytes/s download speed is impractical when programming an application with images of up to 1-2 GB. With the new Elprotronic high speed flashing, you will be able to boost performance up to 40 MB/s, and program Gigabyte images in under a minute.

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