



BG NETWORKS

BGN-SAT Security Automation Tool

BGN-SAT Security Automation Tool helps engineers quickly improve security, reduce development time, and take advantage of in-silicon security features in their embedded designs. An intuitive GUI-based software tool, BGN-SAT is used to define a security profile aligned to your cybersecurity needs and automatically implement a customized solution for your IoT device.

Leveraging embedded processor in-silicon security features, BGN-SAT makes it easy and quick to securely implement:

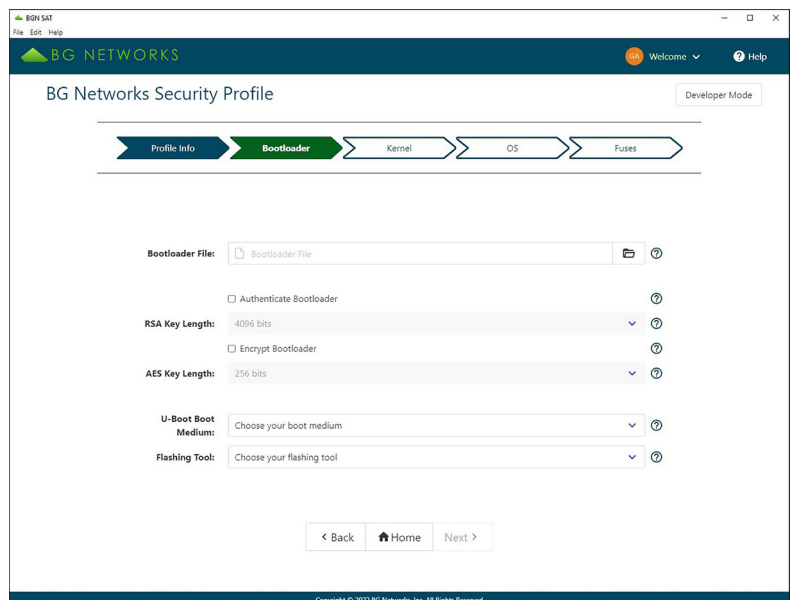
- **Authentication:** Ensure only your code is run and prevent code injection or modification by creating a hardware root of trust and securely booting your embedded processor.
- **Encryption:** Protect your IP and private data from being stolen while at rest or in motion.
- **Unique security for each device at the time of manufacturing:** With one click, BGN-SAT automatically generates and securely stores per-device keys, signs and encrypts firmware, programs the device, and secures processor interfaces to quickly provision each device during manufacturing.

BGN-SAT Security Automation Tool takes the learning curve and uncertainty out of deploying embedded security to your IoT device. It improves developer efficiency in deploying security, eliminates guesswork, and removes the impact of cybersecurity on your product's time to market.

Available today for NXP Semiconductor i.MX 8M and i.MX 6 processors. Please contact BG Networks for other processor and FPGA platforms supported.

FEATURES

- > Delivers secure, encrypted code without complex cybersecurity coding
- > Reduces development time with an easy-to-use GUI interface
- > Leverages in-silicon processor cybersecurity functions to increase speed and efficiency
- > Implements authenticated and encrypted boot for a RTOS or U-boot and Linux kernel
- > Generates public and private keys for RSA digital signatures with key lengths up to 4096-bits
- > Generates AES keys up to 256 bits for code and data encryption
- > Downloads secure binaries to flash via a range of interface options
- > Easily transfers security profiles from design to manufacturing with one click key generation, device programming, and port locking during manufacturing
- > Supports a growing range of security-enabled Arm processors as well as FPGA platforms
- > BGN-SAT GUI-based tool supports both Windows and Linux environments
- > Also offers a command-line control interface for flexible integration of BGN-SAT into your development and production environments



<https://bgnet.works/security-automation-tools-overview/security-automation-tool/>

BG Networks
www.bgnetworks.net

✉ info@bgnetworks.net
in www.linkedin.com/company/bgnetworks

☎ 888-787-8708

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