nanolock

RL78 Ecosystem Partner Solution
# NanoLock Embedded Gatekeeper

Solution Summary

NanoLock Security's Embedded Gatekeeper delivers zero-trust, device-level protection against cyber events and even human errors. The Embedded Gatekeeper protects the operational integrity of connected devices, such as smart meters, regardless of attack origin, cyber events, or exploited vulnerability, to maintain business continuity and safeguard revenues. Out-of-the-box support is now avialable for the RL78 Family MCUs.

Features/Benefits

- Protects the operational integrity of devices against outsider, insider and supply chain cyber events as well as human errors
- Protects both isolated and connected devices
- Reliable monitoring and visibility, trusted status and alerts, unique forensic data
- Local and remote secured updates
- Passive prevention without overhead: near-zero power and resources, no performance hit or functionality impact

Diagrams/Graphics
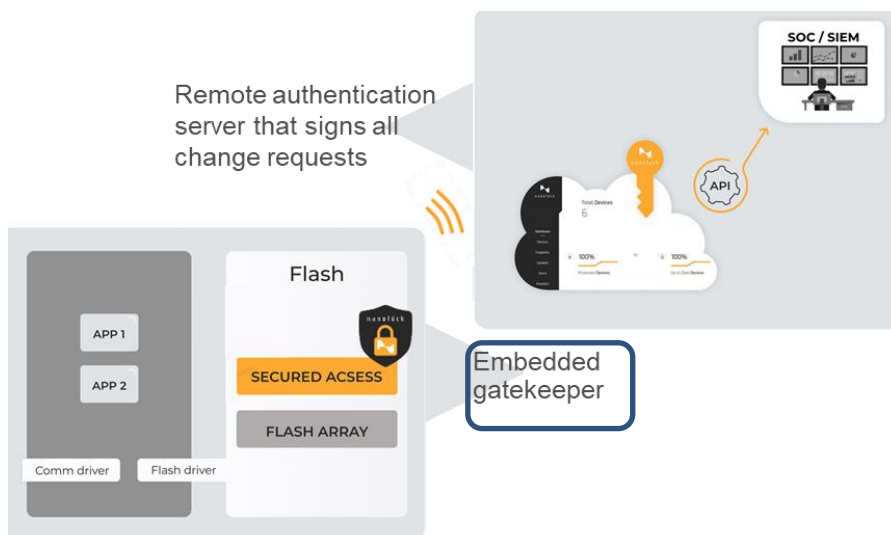
Target Markets and Applications

- Utilities, Smart Metering
- Industrial IoT
- EV Chargers
- Smart Cities

Taking Zero-Trust to the Device

Protecting the Operational Integrity of Devices Against Tomorrow's Threats

NanoLock Security protects the operational integrity of connected devices and machines, in critical and industrial infrastructure, against cyber events and human errors. NanoLock is the only zero-trust device-level solution that prevents outsiders, insiders and supply chain cyber events as well as human errors without affecting the device/machine functionality and performance. NanoLock protects smart meters, EV chargers, data concentrators, industrial controllers, IIOT(Industrial IoT) and the like.

Zero-Trust Technology

NanoLock's device-level protection allows persistent changes to critical code and configuration only if authenticated and signed by an external authorized server. The preventive, zero-trust approach rejects all unsigned change requests, regardless of attack vector, cyber event, attack origin, or the exploited vulnerability.

Why NanoLock

NanoLock protects the operational integrity of devices from cyber events and human errors to protect revenues, save remediation time and costs and support business continuity. While other solutions focus on protecting from outsider adversaries, NanoLock is the only device-level solution that prevents outsiders, insiders, and supply chain cyber events, as well as human errors. NanoLock protection uniquely addresses key challenges of device-level protection and sensitive OT environments:

*   Near-zero requirements - Minimal energy, memory and processing requirements
*   No impact on performance – Lightweight, passive prevention that does not affect performance or functionality
*   Fits all - Agnostic to the CPU and Operating System, applicable to legacy and new devices

Active Deployments

NanoLock has active deployments in major industrial companies, food production lines, and energy and water utilities worldwide.

Winner of Multiple Industry Awards

NanoLock Security is the winner of multiple industry awards¸ including the prestigious "2021 Top 10 for Baby Black Unicorns"¸ Tracxn's "Emerging Startups 2021- minicorn" and "4YFN Barcelona Startup of the Year" award. NanoLock has also won the American Cyber Award for "Best Security Company of the Year under 150 staff" and the CyberSecurity breakthrough award for the "Overall IoT Security Solution provider of the Year".

borisp@nanolocksecurity.com