



PRODUCT BRIEF

Sentinel Fit

The smallest, commercially-available secure licensing solution on the market

Sentinel Fit delivers award-winning software protection features combined with sophisticated, web-based entitlement management capabilities. Sentinel Fit is ideal for embedded systems; supporting virtually all boards and microcontrollers and is free from CPU and operating system constraints.

Sentinel Fit enables embedded device manufacturers to deploy a feature-rich licensing solution with flexible packaging, to reduce cost of hardware variations, and capture recurring revenue via automatic updates and services for in-the-field devices.

Ultra-Low Footprint

Integrate the smallest, commercially available secure licensing footprint into your products:

- > **Sentinel Fit Runtime:** Designed for use in highly constrained environments (RAM, CPU power, storage).
- > **Resource Consumption:** Consumes a low portion of the available free resources on the device.
- > **Footprint Size:** Smallest commercially available licensing
RSA Footprint 34KB Flash, 13KB RAM.
AES Footprint 6.5KB Flash, 1.5KB RAM.

High Portability

Use a feature-rich SDK suitable for development on all device platforms.

- > **Source Code:** Access to Sentinel Fit runtime source code
- > **Development Platforms:** Supports widest range of environments and platforms, across OS variants, CPU architectures, and board types.
- > **Flexible Compilation:** Compile the source code to meet environmental needs.

Features & Benefits

- > **Ultra-Low Footprint:** Integrate the smallest, commercially available secure licensing footprint into your products.
- > **High Portability:** Use a feature-rich SDK suitable for development on all device platforms.
- > **Modular Architecture:** Create an optimal balance between footprint and device functionality.
- > **Feature-Based Licensing:** Customize your product with a feature based licensing solution.
- > **Tamper-Proof Licenses:** Safeguard the security of licenses from throughout the entire life cycle from creation to delivery.
- > **Fingerprint Node Locking:** Ensure users do not copy licenses from one device to another.
- > **License Activation & Updates:** Activate and update licenses throughout the entire product lifecycle.

Modular Architecture

Create an optimal balance between footprint and device functionality.

- > **Customization:** Tailor the runtime to meet hardware constraints, and reduce footprint.
- > **Pluggable Cryptography:** Reduce footprint by leveraging existing crypto license signature: RSA 2048 or AES 128.
- > **Do It Yourself:** Independently customizable to match specific footprint requirements.

Feature-Based Licensing

Customize your product with a feature-based licensing solution.

- > **Product Functionality:** Vendors can use licensing to grant (or deny) access to different software features
- > **Licensing Models:** Independent license model can be connected to any feature; including perpetual or time-based (expiry date) licensing models
- > **License Per Feature:** Supports up to 65K features/functions

Tamperproof Licenses

Safeguard the security of licenses throughout the entire life cycle from creation to delivery.

- > **License Enforcement:** Licenses define the software usage terms; RSA asymmetrically signed; AES symmetrically signed.
- > **License Protection:** Licenses are generated by the vendor only and are protected from illegal manipulation.
- > **Secure License Delivery:** Licenses are secured in transport.

Fingerprint Node Locking

Ensure users do not copy licenses from one device to another.

- > **Fingerprint Protection:** Vendor creates a fingerprint function based on unique device attributes.
- > **Vendor Control:** Vendors get full control to enable customization of license locking criteria.
- > **Illegal Duplication:** Fingerprints are incorporated into the licenses to prevent illegal duplication.

License Activation & Updates

Activate and update licenses throughout the entire product lifecycle.

- > **License Activation:** Supports activation at production, during fulfillment, and field activation.
- > **License Updates:** Send new licenses or updates to devices in the field.
- > **License Control:** Supports device personalization per channel or end user.
- > **Production Control:** Enable to control low-trust contract manufacturers and still allow them to produce offline.

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Extended EMS Functionality

Extend the functionality of Sentinel Fit using Sentinel EMS.

- > **Use Customer-Centric Data:** Get analytic data to understand use cases, build better products and adapt to evolving market needs.
- > **Controlled Manufacturing Process:** Ensure that only entitled devices are activated and prevent cloning and grey-market copycats.
- > **Control Sales Distribution:** Authorize and track what packages your partners, distributors, and sales channel are authorized to sell.

About Gemalto Sentinel

Gemalto is the market-leading provider of software licensing and entitlement management solutions for on-premise, embedded, and cloud-based software vendors. Gemalto Sentinel is the most trusted brand in the software industry for secure, flexible, and future-proof software monetization solutions.


security to be free