



COMPREHENSIVE IOT TECHNOLOGY PLATFORM

Build with KoreLock® Inside.

KoreLock offers a patented IoT technology platform that includes firmware and PCBAs, mobile apps, cloud infrastructure for remote monitoring and control, and seamless cloud-to-cloud APIs integration with third-party access control applications.



WI-FI CLOUD ACCESS

Our patented, power-saving Wi-Fi technology provides enhanced intelligence for access control that extends battery life while operating on existing Wi-Fi networks.



LOCK FIRMWARE

Deep access control feature set including access users, guest users, schedules, auto-lock and passage modes and other lock settings.



BLUETOOTH LOCAL ACCESS

Secure Bluetooth® functionality, including lock/unlock, user management, settings, history and mobile credentials.



MOBILE APPS

Use our smart offline credentials including mobile credential and algorithmic PINs in non-connected environments.



CREDENTIAL FLEXIBILITY

Support for multiple types including pin codes, temporary guest codes, algorithmic codes, cards and mobile credentials.



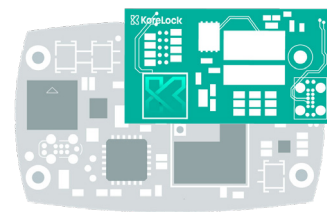
SECURE ENCRYPTION

Industry-standard security technologies, including SSL/TLS, 2048-bit public/private key encryption, and secure registration flows.

KORELOCK MODULE FUNCTIONAL SPECIFICATIONS

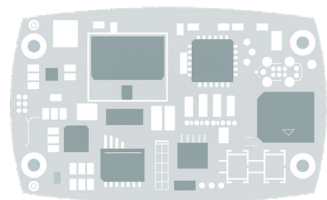
Best-in-class, tested, and proven with **over 130,000** installations worldwide.

Users (PINs & Cards)	Up to 3,300
Audits	Up to 4,900 events stored on lock if offline.
Supported Credentials	User PIN Code, Temporary Guest PIN, Temporary Algorithmic PIN, and Mobile Credentials. Support for Prox/MiFare card credentials available (host hardware card reader required). Local App Lock/Unlock.
Passage Modes	Passage Mode and Auto-Lock Mode
Schedules	- Lock Schedule (lock/unlock weekly schedule) - Up to 63 Access Schedules (M-F, 9-5) - Up to 63 Access Exception/Holiday schedules - Passage Mode Schedules (alter between passage and auto-lock)
Programming	Via keypad, over BLE or Wi-Fi.
Lockout	Defaulted to 5 incorrect entries, field configurable
Hardware	Nordic Semiconductor nRF52840, Espressif Systems ESP32-S2-MINI-1
Communication Standards	2.4 GHz Wi-Fi (IEEE 802.11 b/g/n) - WPA, WPA2 - HTTPS encrypted with TLS - UDP channel with AES-128 encryption - Bluetooth® low energy (version Bluetooth® 5)
WiFi Connection Interval	Intermittent Wi-Fi connectivity defaults to every hour and when keypad pressed. Connection interval can be adjusted between every 5 minutes to 1x per day. Always on connection possible with optional external power supply.
OTA (Over the Air Firmware Updates)	Available for Wi-Fi and BLE modules via BLE (delivered by mobile app) and over Wi-Fi.
Security	Mutually-authenticated TLS 1.2 with 2048-bit keys.



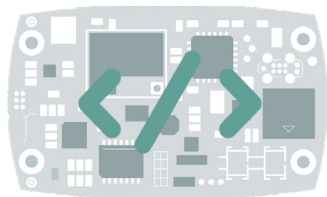
KORELOCK MODULE

Embedded Smart Lock on a chip with full-featured firmware, Wi-Fi for cloud connectivity and BLE for local control.



CUSTOM PCBAS

Work with KoreLock to embed supported processor, Wi-Fi and BLE modules onto custom PCBA to fit specific hardware.



FIRMWARE LICENSE

Build your own PCBAs with supported hardware and license KoreLock firmware and app support.

