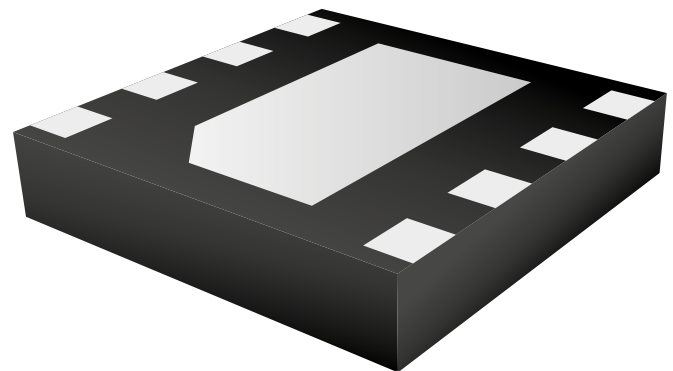


Pico SE - 800

Datasheet

The Kudelski IoT Pico SE Root of Trust creates trust and control between your device and the cloud. By embedding a robust identity directly into your hardware designs, you enable a wide range of security features designed to make IoT simple and secure.



Robust Identity

A unique identity is provisioned at production and can be securely transferred throughout the device lifecycle.

Feature Authorization

Features can be enabled on devices using tokens generated by IoT Security Platform. Tokens can be used to give authorizations for specific time periods.

Zero Touch Provisioning

Simple Server API to on-board devices to AWS IoT and Azure. Cloud Certificate management is transparent to devices, including revocation and key management.

Secure FOTA

The Pico SE is remotely updateable and patchable.

Local Encryption

The data stored locally in the devices is secured and can be remotely managed.

Chip to Chip Security

Mechanisms are provided to mutually authenticate different components of a Device and ensure secure communication within the device.

PSK DTLS

Support for DTLS stacks optimized for LPWA use cases leveraging PSKs.

The Kudelski Pico SE connects seamlessly to the Kudelski IoT Security Platform to secure any IoT use case and protects the entire security lifecycle of your product from launch through end of life.

As a hardware secure element, the Pico SE provides robust protection of identity, device, data, decisions, commands and actions, packaged in a ready-to-use, power-efficient chip.

Processor	32-bit 33Mhz ARM
Technology	40nm CMOS
Memory	800kByte NVM 20kByte RAM
Interface	I2C (FM) - Fast mode up to 400 Khz
Temperature range	Industrial Grade (-40 °C to 105 °C)
Power consumption	3.8 mA nominal 0.06 mA sleep
Packaging options	CSP (1.28mm x 1.26mm x 0.43mm) USON-8.6 (2mm x 2mm x 0.15mm)
Certifications	CC EAL 5+

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