

SECORA™ Connect – turnkey NFC solution empowering wearables and IoT devices with payments and beyond

CSS DSI TMT OS

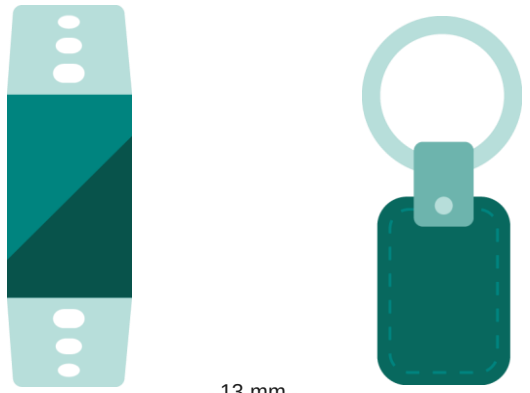
Sept 2024

public

Wearables Portfolio – SECORA™ Pay W & Connect S/X

SECORA™ Pay W	SECORA™ Connect S	SECORA™ Connect X
Turns “anything” into a payment device	Ultra-small, cost optimized and field-powered payments	Empower wearables and IoT devices with payments and beyond

Field-powered devices



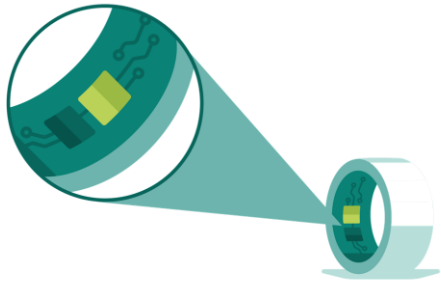
SPA2.1

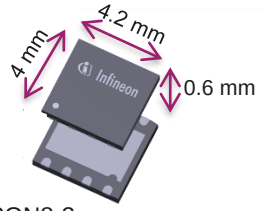


USON8-7

Active devices







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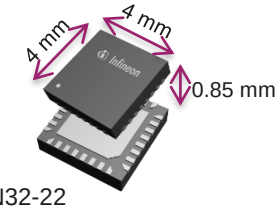

VQFN32-22



Single-Token



Multi-Token

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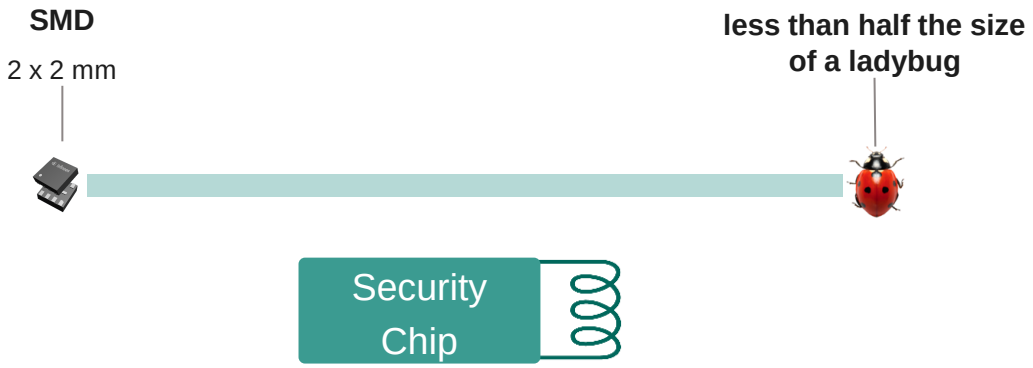
SECORA™ Connect

SECORA™ Connect Family

SECORA™ Connect S
Ultra-small, cost optimized and field-powered payments





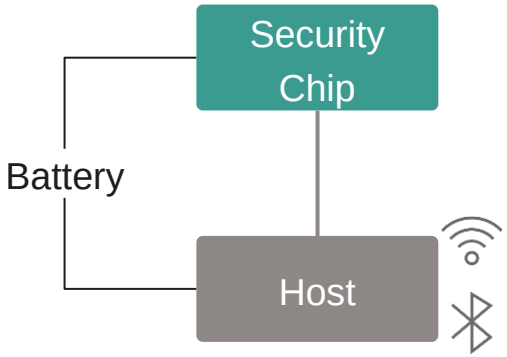


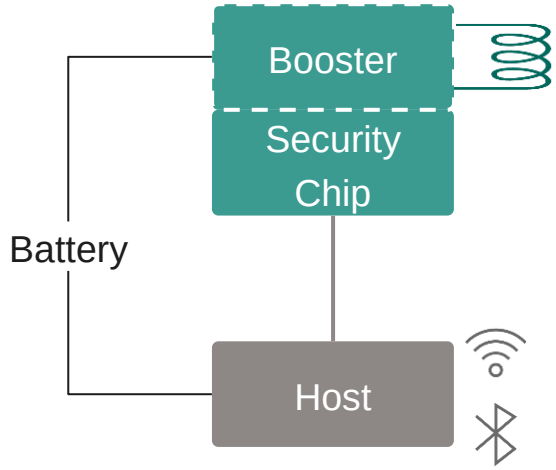
Non-connected (no battery)

SECORA™ Connect X
Empower wearables and IoT devices with payments and beyond









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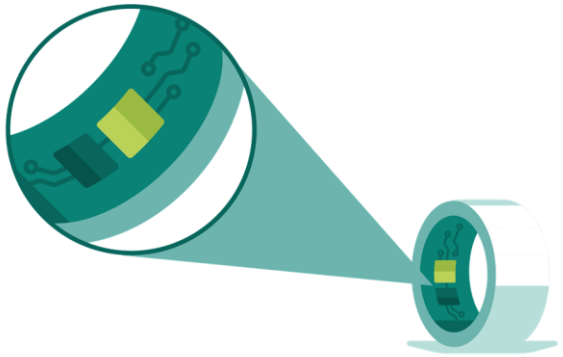
SECORA™ Connect X – optimized solution for smart ring devices with single antenna

Smart ring



- **Single** antenna solution approach
- **Ultra-small** antenna design
- Compact solution with **small footprint**



EMVCo Payment Mode

- Multiple EMVCo compliant on small size antenna
- Fulfilling requirements for payment transactions in wearable devices
- VISA and Mastercard applets



Charging Mode

- Powerful NFC charging capabilities

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SECORA™ Connect Family – Product description



Turnkey NFC Solution

System-in-package: Visa/Mastercard payment application, PPSE, CDCVM, and more on request

Fast time-to-market

Pre-certified contactless performance
Fast and **easy** host integration: Simple interface with APDU over ISO7816, ISO 14443, or I²C

Longest battery lifetime

Battery-less with field-powered NFC
Ultra-low power consumption in standby mode with boosted NFC: ~4-6 uA

Design flexibility with optimized PCB footprint

Ultra-small physical **footprint** leaves more space for other components
Very **simple external** circuits and crystal savings: only 7x capacitors or fewer

Seamless migration

Best-in-class support and **partnership** throughout the ecosystem
Easy host integration with PSoC™ based evaluation kit

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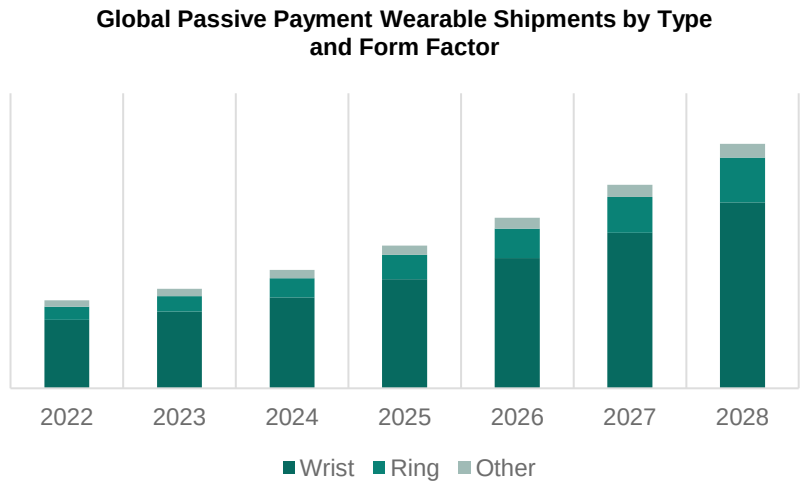
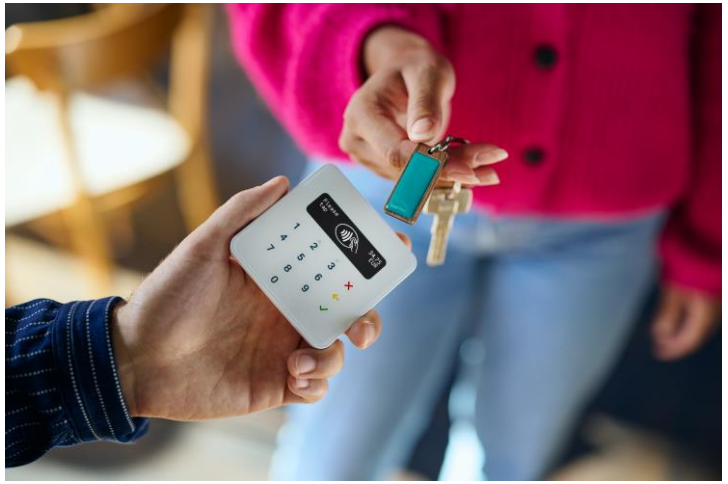
Discovering the potential of new form factors
Open loop and closed loop applications







Rising form factors

- Wrist-worn wearables being the majority device type within the market
- Ring wearables seeing most significant growth at 24.7% (open loop) and 18.0% (closed loop) CAGRS, respectively, between 2023 and 2028

Open Loop

- Broad spectrum of versatile and widely applicable use cases (retail purchases, dining, hospitality, transportation, entertainment)
- Providing users with a flexible and comprehensive payment solution that can seamlessly adapt to various spending needs and merchant environments

Closed Loop

- Diverse range of customized environments (theme parks, corporate campuses, festivals, hospitality, stadiums, retail loyalty programs)
- Offering tailored and efficient payment solutions within specific ecosystems, enhancing convenience and streamlining transactions for users

Source: ABI Research, October 2023; Passive Payment Wearables: Technologies and Trends

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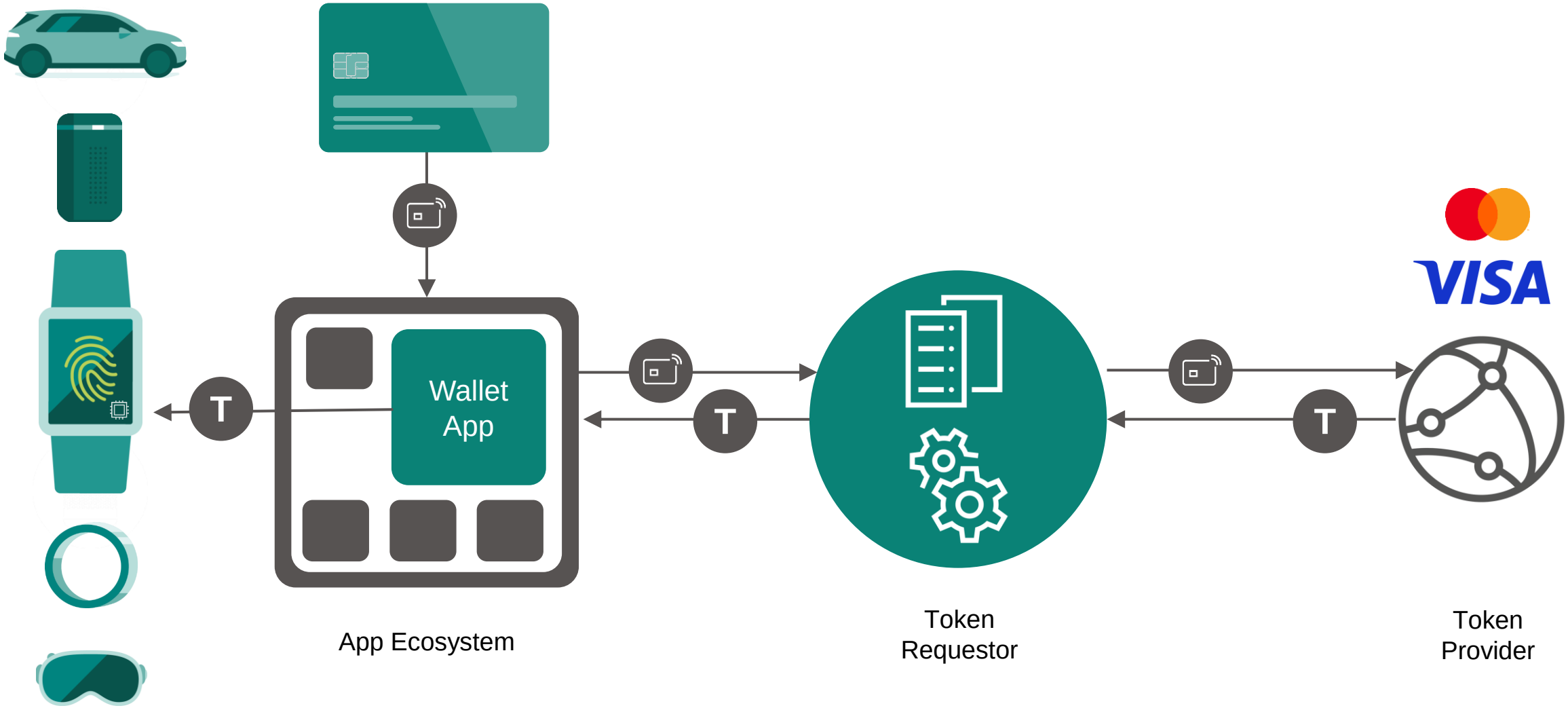
Card digitization process – Payment Tokenization



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