

Product brief

Smart Payment Accessories (SPA)

Fast integration of contactless payment functionality into wearables

The future of payment is contactless. The continuing expansion of contactless infrastructure, the increasing adoption of dual-interface payment cards with contactless functionality and the growing availability of tokenization and card digitization services from Mastercard and Visa are paving the way for almost anything to be turned into a contactless payment device. Contactless payment accessories such as key rings, wristbands, watch straps, rings – to mention but a few – give customers a convenient, fast and secure way to pay. All they need to look out for is a contactless symbol.

Infineon developed the SPA product series to give customers easy, fast access to the smart payment accessory business. It offers a standard delivery form based on ultra-thin and robust 35 mm film tape. Combined with the latest 65 nm chip technology, SPA supports the highest transaction speeds for contactless payment.

The antenna size of SPA modules is significantly smaller than that of standard ID1 cards but fully compliant with contactless payment requirements for new accessory form factors. Based on Infineon's extensive semiconductor and module expertise as well

as its profound understanding of the payment ecosystem and its requirements, SPA underlines Infineon's technology leadership in this field.

SPA combines with SECORA™ Pay W, Infineon's ready-to-use, optimized payment solution portfolio for novel form factors. This combination makes it easier than ever to turn any device into a payment accessory.

To address all application requirements, two SPA versions will be available

› S-SPA1.1-0-1

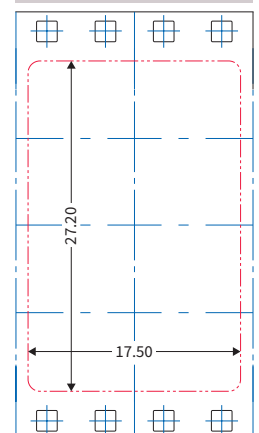
Designed for integration into payment accessories used in a non-metal environment such as wristbands, key fobs and laminated plastic inlays

› S-SPA1.2-0-1

Designed and optimized for sticker applications, with one side shielded with a ferrite material for use on mobile phones or metal cans



Module size: 17.5 x 27.2 mm
Module pitch: 19 mm



Infineon SLC 32 PD

www.infineon.com/payment

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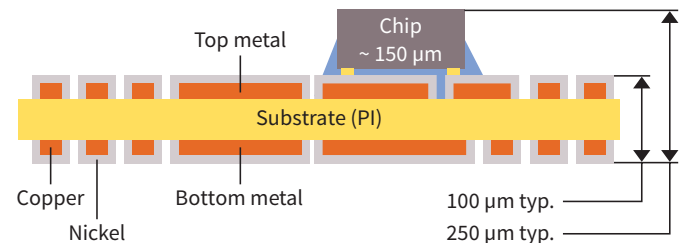
SPA highlights	Customer benefits
> EMV-compliant contactless performance	> Contactless personalization similar to standard payment cards
> Extremely thin and flexible product design	> Easy lamination into plastic bodies
> Based on latest 65 nm chip technology	> Easy integration into different form factors
> Standardized product delivery form on 35 mm film tape	> Fast time-to-market
> Personalization on tape possible	> Ready-to-use solution
> Small product/antenna size	> Fast availability even for small volumes

Product integration and enablement

Infinion offers an application note explaining how to handle the product during production and how to integrate the SPA into payment accessories.

Product features	S-SPA1.x-0-1
Module technology	Flip chip
Punching size [mm]	27.2 x 17.5
Package thickness [mm]	0.250
Pitch [mm]	19.00
Applications	Contactless payment, transport, access control, loyalty schemes
Manufacturing requirements	Standard 35 mm tape on reel, guidance for product integration into different form factors (see application note)
Package qualification	Results available in qualification report
Qualified chip types	16-bit security controller V01 or as turnkey solution incl. OS and applets (SECORA™ Pay W)

Cross-section of an SPA module



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