

springcard®



NFC FOR EV CHARGING

DuoX EV compatibility

Security, simplified integration

Step into the European standard

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Interoperability = Chaos or Opportunity ?

Electric charging is booming: in cities, in workplaces, and in public parking lots.

But behind this growth lie major technical and security challenges.

Access security, badge compatibility, interoperability between operators, and a seamless user experience are all key concerns for charging station manufacturers aiming for sustainable, well-managed deployments.

Today, the proliferation of cards and the lack of a common standard weaken the ecosystem.

It's time to align around a clear framework and a single card to represent it:

The MiFare DUOX EV and the VDE-AR-E 2532-100 standard.



Behind the universality of identification cards lies a more complex reality: MiFare 1K cards, which are not very secure, are easy to clone.



Each operator imposes its own subscription, forcing users to juggle several cards.



This model, which is not very viable, exposes people to the risk of large-scale fraud, which could lead to massive additional costs. To avoid this, security and interoperability must be built into the design of the terminals from the outset.



SpringCard helps you check all the boxes!



Security

We anticipate regulatory developments and work with NXP's latest innovations, including the new MIFARE DUOX® card.



Conformity

The **VDE-AR-E 2532-100** standard marks a turning point, laying the foundation for a clearer, more reliable, and more open European framework among industry stakeholders.



Interoperability

Our readers support Apple and Google Wallet (ECP 1 and ECP 2 protocols), ideal for private environments.



Matériel

We offer ready-to-integrate OEM modules, delivered in tape and reel, and compatible with all cards on the market.



Beyond the reader

- Plug-ins, libraries, and drivers supporting ECP and multi-card environments are available.
- **DUOX EV**: encoding
- We provide support with customization options, mechanical adaptation, and tailor-made development.

Our Recommended Readers

Compact design, simplified

Size: 69 x 45 mm same as the K663 module

No mechanical changes required.

Single USB cable for both power and data.

Interfaces polyvalentes (via switch intégré)

- USB
- Série TTL (0-5V) / CMOS (0-3V)
- RS-232 (EIA 232 : -5/+5V)
- RS-485 half-duplex (EIA 485)

Extreme condition durability

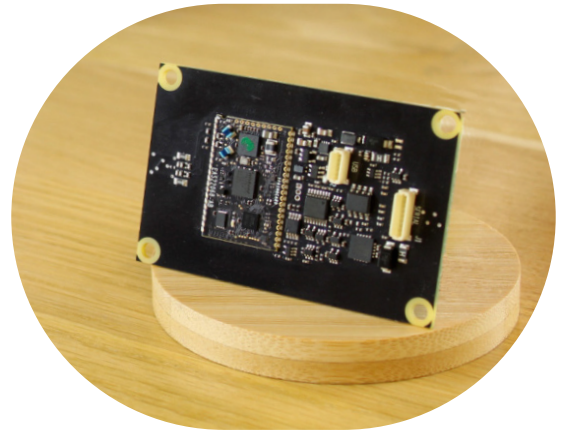
- Wide operating temperature: -40°C to +85°C
- Qualified for demanding industrial and outdoor use.

Enhanced security (SAM)

- SAM slot for secure cryptographic key storage.
- Ideal for open-loop applications (Calypso, Desfire, Mifare Plus, eID, public transport).
- Flexible integration with a separate antenna adapted to the use environ.

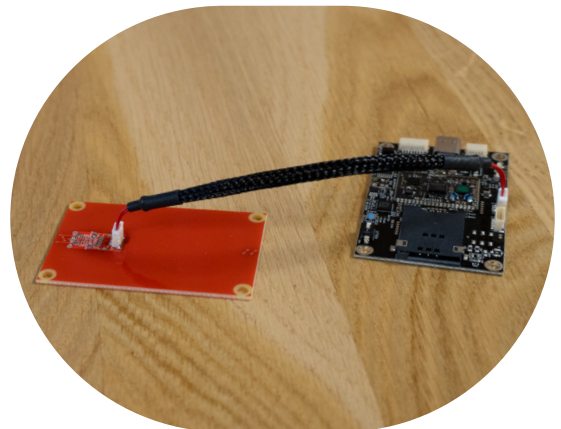
SPRINGSEED M519 SUV

INTAGRATED ANTENNA



SPRINGSEED M519 SAM (B)

SEPARATE ANTENNA



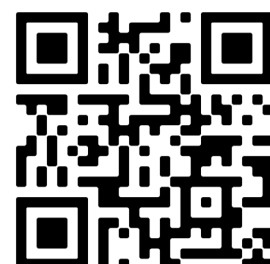
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