

SpringCard's RFID & NFC Antennas

SPRINGCARD'S CONTACTLESS READERS & ANTENNAS

The antenna is a key component of a 13.56MHz RFID/NFC system.

Most of our OEM couplers and smart readers feature our 69x45mm antenna, which provides the best performance/ size ratio when used with standard contactless cards (ID-1 format, ISO 14443-1 classes 1 to 6).

For any project involving very small tags, large NFC objects (including NFC «phablets»), or where a large operating volume is better for the user experience, choosing the appropriate antenna is the shortest path to succes.

NEED A CUSTOM ANTENNA? ASK THE EXPERT!

Some integrations are so constraint in terms of size or position of the antenna that it must adopt a very specific shape or tuning.

Designing such an antenna can't be improvised. SpringCard's engineers master that subject and will be glad to help you finding the best solution according to your requirements.

TIPS

The best compromise between performance, consumption and cost is typically reached when both reader's antenna and NFC object's antenna (whether it is a card, a tag, a RFID label, or a phone) are more-or-less the same size.

The electromagnetic environment (metal or PCB in the nearby, other electronic devices) also has a strong impact on the distance and operating volume that could be reached for a given energy level.

Working with SpringCard opens up the scope of possibilities



SPRINGCARD'S ANTENNAS PORTFOLIO

The table below lists our out-of-the-shelf antennas.

Туре	Dimensions	Order code
Symmetric	69x45mm	SC14358 default antenna of the TwistyWriter
Symmetric	20x85mm	SC14360
Symmetric	102x102mm	SC14359
Symmetric	146x78mm	SC15387
Asymmetric	69x45mm	SC0263 default antenna of the CrazyWriter

Need a balanced or unbalanced antenna?



to use a custom balanced antenna

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