

LF Card Inlay

Chip specifications & sheet references

Compare the IC capabilities below before specifying a 125 kHz sheet. The quotation identifies the exact chip variant, encoding and supplied coil design.

Chip / interface	Memory and configuration	Application fit
EM4200 EM4100/4102-compatible options; encoding and bit rate depend on variant	128-bit ROM; 64 / 96-bit options Factory-programmed, read-only. The Manchester 64 version carries 40 data bits within a 64-bit frame.	Fixed-ID cards for a reader accepting the selected EM data format. Specify the complete variant and identifier format. The IC operates at 100–150 kHz; approve the 125 kHz coil and finished card together.
EM4305 EM4469/4569-compatible commands; Manchester or bi-phase encoding	512-bit EEPROM · 16 × 32-bit words Read/write with protection settings. Includes a factory 32-bit UID, password and configuration; words 5–13 provide 288 user bits for the default message.	Writable identification data with an EM4305-compatible reader/writer. Agree the data words, encoding and protection settings. The IC supports 100–150 kHz; this alone does not certify a card for animal identification.
ATA5577C Configurable Manchester, bi-phase, FSK, PSK or NRZ; matching reader settings required	363-bit EEPROM · 11 × 33-bit blocks Read/write by block. Each block includes one lock bit; configuration and traceability also use memory.	Configurable LF card projects with a defined reader format and encoding file. Specify the exact Microchip part and programmed configuration. The 100–150 kHz IC family is documented here; a generic “T5577” label does not identify every supplier’s chip.

ROM and total EEPROM are different quantities. Configuration, identifiers, protection words and lock bits occupy part of the memory shown; the reader may return only part of the transmitted data.

Original manufacturer sources

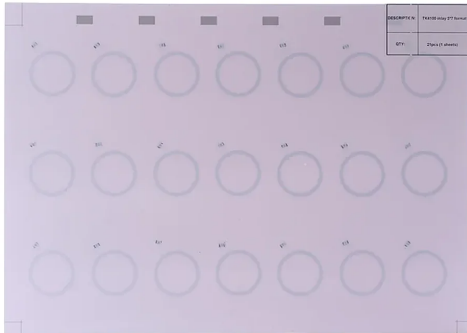
[EM4200 datasheet](#)

[EM4205 / EM4305 datasheet](#)

[ATA5577C datasheet](#)

Sheet & antenna references

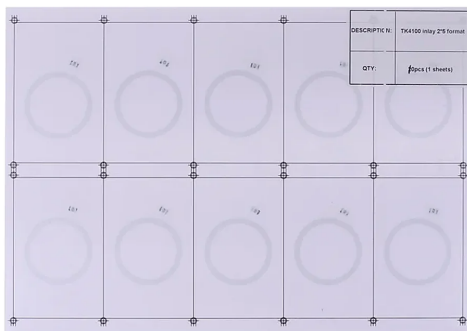
Photographed examples help identify the layout and antenna style. They do not establish current production dimensions, substrate, thickness or stock availability.



3 × 7 inlay sheet

21 pictured positions

The photo label reads “TK4100 inlay 3*7 format” and “21pcs (1 sheets)”. This identifies the historical pictured example, not the chip supplied on a new order.



2 × 5 inlay sheet

10 pictured positions

The photo label reads “TK4100 inlay 2*5 format” and “10pcs (1 sheets)”. Use this smaller layout as a reference when discussing the production drawing.

From reference to production sheet

The quotation and approved drawing identify the supplied IC, overall sheet and antenna dimensions, thickness and tolerances, materials, usable positions, MOQ and schedule. These supply values are not established by this reference document.

Compare configurations and request sample sheets on the product page →