

RFID Paper Cards & Tickets

Dimensions, construction & electronic options

C0PA is the published paper-card family. The three 86 × 54 mm formats below differ in listed finished thickness. The source lists paper grades separately; it does not pair a particular paper weight with a particular finished thickness. These are specification references, not a live inventory list.

Specification	Published reference
Product family	C0PA RFID paper card / ticket
Published footprint	86 × 54 mm; custom outlines are listed as an option
Finished thicknesses	0.38 mm, 0.50 mm or 0.60 mm; manufacturing tolerances are not stated in the listing
Layer construction	Two coated-paper layers with an RFID antenna inlay between them
Paper-grade references	250, 300, 350, 400 and 450, listed by the supplier as “grams”; the source does not state a per-layer or combined basis
Printed surfaces	Four-color artwork on both faces; varnish finish described for print protection
Supply formats	Individual pieces or rolls; no standard roll count, core diameter or winding specification is published
Radio choices	13.56 MHz HF or 860–960 MHz UHF product-family options; the chip determines the protocol
Published working range	–25 to +70 °C in the supplier listing; no exposure duration, moisture condition or finished-ticket test report is provided

Model & format references

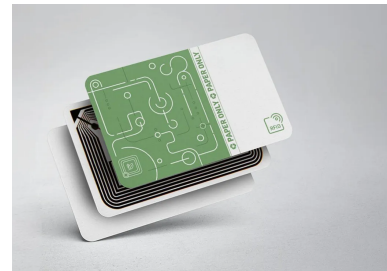
Model / format	Physical construction
C0PA · 0.38 mm reference	86 × 54 × 0.38 mm Coated-paper faces with an RFID inlay
C0PA · 0.50 mm reference	86 × 54 × 0.50 mm Coated-paper faces with an RFID inlay
C0PA · 0.60 mm reference	86 × 54 × 0.60 mm Coated-paper faces with an RFID inlay

Printed paper-ticket sample



Construction illustration only: printed recycling symbols do not certify the complete RFID assembly.

Paper faces and the antenna inlay



Chip-level selection references

Match the chip, data format and reader. IC memory and radio specifications do not define the read distance or environmental performance of every finished card.

Chip	Interface / memory	Selection notes
MIFARE Ultralight EV1	13.56 MHz · ISO/IEC 14443 A 48 or 128 bytes user memory	Limited-use ticket records using the selected EV1 variant An exact comparison within the supplier-listed Ultralight family. Select MF0UL11 or MF0UL21 for the required memory; password protection is not AES authentication.
MIFARE Ultralight C	13.56 MHz · ISO/IEC 14443 A 144 bytes user data; 192 bytes total EEPROM	Ticketing systems already using Ultralight C commands and keys Ultralight C and EV1 are different ICs. Their authentication and memory cannot be substituted merely because both use 13.56 MHz.
MIFARE Classic EV1 1K	13.56 MHz · ISO/IEC 14443 A 1 kB total EEPROM in 16 sectors	Installed Classic credential or ticketing systems Sector trailers and manufacturer data occupy part of total memory. Exact reader commands, keys and data layout determine compatibility.
ICODE SLIX2	13.56 MHz · ISO/IEC 15693 316 bytes user data plus a separate counter block	Systems specified for the ISO/IEC 15693 interface A precise ICODE-family comparison: 79 × 4-byte user blocks plus the counter block. It is not the same reader interface as an ISO/IEC 14443 A ticket.
UCODE 8	UHF · EPC Gen2v2 / ISO/IEC 18000-63 128-bit EPC; 96-bit TID; no separate user memory	UHF ticket identification linked to a backend record UCODE 8 values, not UCODE 8m. EPC and TID are different fields. The antenna and regional reader settings determine finished-ticket behavior.
UCODE 9	UHF · EPC Gen2v2 / ISO/IEC 18000-63 96-bit EPC; 96-bit TID; no separate user memory	UHF identification where the application uses a 96-bit EPC The supplier lists UCODE 9 alongside UCODE 8; their EPC capacities differ. Neither is readable by a phone's NFC radio.

Sources & scope

C0PA RFID Paper Card — Proud Tek. Published C0PA specification table and paper / inlay construction

RFID card materials and paper-ticket printing — Proud Tek. Single-use RFID paper cards section

MIFARE Ultralight EV1 datasheet — NXP Semiconductors. Rev. 3.3, sections 1.4, 2.1 and 8.6

MIFARE Ultralight C datasheet — NXP Semiconductors. Rev. 3.5, sections 2.2, 7.5.5 and 7.5.9

MIFARE Classic EV1 1K datasheet — NXP Semiconductors. MF1S50YYX_V1, Rev. 3.2, 23 May 2018

ICODE SLIX2 datasheet — NXP Semiconductors. SL2S2602, Rev. 4.2, 1 December 2021

UCODE 8 / 8m datasheet — NXP Semiconductors. SL3S1205_15, Rev. 3.6, 2 December 2021

UCODE 9 datasheet — NXP Semiconductors. SL3S1206, Rev. 3.5, 12 February 2025

The quotation and approved order drawing define the supplied construction, chip, marking and tolerances. Source listings are comparison references; current supply and any test conditions depend on the selected configuration.

[View product photographs, specifications and quote options →](#)