

RFID Clamshell Cards

Dimensions, construction & electronic options

C2T41W and C2E42W are published supplier model references. The printable-face card is a separate listed format without a model number. Keep each row’s dimensions, chip and packing together when requesting samples.

Specification	Published reference
Standard model reference	C2T41W
Card dimensions	85.5 × 54 × 1.8 mm for C2T41W and C2E42W
Standard construction	Rigid ABS shell with PVC backing
Antenna reference	C2T41W rectangular antenna: 37 × 63 mm; listed wire diameter 0.05 mm
Nominal mass	Approximately 8 g per C2T41W card
Attachment	Oblong lanyard slot at the short edge; slot dimensions are not published
LF frequency	125 kHz for the C2T41W and C2E42W references
Marking options	Logo printing and visible serial or chip-number marking; print method depends on the selected face
Standard packing reference	100 pieces per box; 1,000 pieces per carton for C2T41W and C2E42W

Model & format references

Model / format	Size / chip	Read example / packing
C2T41W Standard LF proximity card	85.5 × 54 × 1.8 mm TK4100 / EM4200 options in the listing	5–13 cm supplier reference, depending on reader 100 / box; 1,000 / carton
C2E42W EM4200 long-reader reference	85.5 × 54 × 1.8 mm EM4200 · 125 kHz	0.8–1.2 m supplier example with a long-distance ID reader 100 / box; 1,000 / carton
Published format PVC-face thick card	86 × 54 × 1.8 mm Listed LF or HF options: TK4100, EM4200, EM4305, MIFARE 1K and NTAG21x, among others	No numerical reading distance published for this format 100 / box; 2,000 / carton

Slotted clamshell card faces



Rectangular and round coil examples



Photographs show product appearance and construction examples. Use the listed dimensions and the approved drawing for physical fit.

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
EM4200	LF · 100–150 kHz IC range; card reference at 125 kHz Read-only laser ROM; 64 / 96 / 128-bit device options	C2E42W's listed chip and a C2T41W option. Select the encoding and data rate accepted by the reader. The factory-programmed identifier is not rewritten during enrollment.
EM4305	LF · 100–150 kHz IC range 512-bit total EEPROM: 16 × 32-bit words	Listed for the PVC-face thick-card format when a compatible writable LF credential is required. Read/write device with 32-bit UID and password/protection controls. Total EEPROM includes non-user words.
MIFARE Classic EV1 1K	HF · 13.56 MHz · ISO/IEC 14443 A 1 kB total EEPROM: 16 sectors × 4 blocks × 16 bytes	Technical reference for the listed MIFARE 1K option. Specify the exact IC, UID variant, sector layout and authorized keys. Sector trailers hold keys and access conditions; 1 kB is not all free application space.
NTAG213 / NTAG215 / NTAG216	HF · 13.56 MHz · NFC Forum Type 2 144 / 504 / 888 bytes user memory	Listed for the PVC-face format. Useful for NFC phone links; not a replacement for a 125 kHz access credential. Writable NDEF content; manufacturer-programmed UID and 32-bit password protection.

Sources & scope

[C2T41W ID Clamshell Card](#) — Proud Tek. Model, body and antenna dimensions, mass, marking and packing table

[C2E42W EM4200 Clamshell Card](#) — Proud Tek. Long-distance-reader configuration and working-temperature listing

[PVC-face University ID Thick Card](#) — Proud Tek. 86 × 54 × 1.8 mm printable-face reference and LF/HF chip options

[EM4200 datasheet](#) — EM Microelectronic. Version 3.2, description and memory sections

[EM4205 / EM4305 datasheet](#) — EM Microelectronic. 512-bit EEPROM, identification and protection features

[MIFARE Classic EV1 1K datasheet](#) — NXP Semiconductors. Sections 2.1 and 8.6: memory organization

[NTAG213 / NTAG215 / NTAG216 datasheet](#) — NXP Semiconductors. Rev. 3.2, sections 1.3 and 2.1

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](#) →