T5577 Cards: Rewritable 125 kHz RFID Cards, ATA5577C

Proud Tek's T5577 cards are rewritable 125 kHz RFID cards on genuine Microchip ATA5577C chips, for legacy access-control migration and card reissue. The chip emulates common low-frequency credential formats, including EM4100, and offers password and lock-bit memory protection. Lock bits protect the card's memory, not the credential it sends: the T5577 has no cryptographic authentication, so proven cloning resistance needs an assessed DESFire workflow. Samples are tested on the target reader before bulk order.

T5577 card selection

Selection point	What to check
Chip	Microchip ATA5577C; if your integrator has approved a chip, check that it is this part.
Frequency	125 kHz card; Microchip's ATA5577C IC supports the 100–150 kHz range.
ATA5577C memory	363 bits total, including control and lock bits. Seven 32-bit user blocks include the optional password block; total memory is not all application payload.
Configuration	Data rate, modulation, encoding and operating mode must match the reader.
Programming	Use an LF writer and software that support the ATA5577C.
Finish	Specify blank or printed card, material, size, numbering and any additional features.

Inside the T5577: pages, blocks and the configuration register

Area	Contents
Page 0, block 0	Configuration register: data rate, modulation, PSK sub-carrier, the number of blocks to transmit (max block), password and Answer-On-Request bits. Not transmitted in a normal read.
Page 0, blocks 1–7	User data blocks that carry the credential payload; block 7 optionally holds the 32-bit password.
Page 1, blocks 1–2	Traceability data: a unique ID built from Microchip's lot, wafer and die numbers, programmed and locked during production testing (the datasheet states this for sawn-wafer-on-foil delivery).
Page 1, block 3	Analog front-end option register: detection levels, clamp and modulation voltage, downlink protocol. Not transmitted in a normal read.
Lock bit (per block)	Once set, the block and its lock bit cannot be reprogrammed through the RF field, even with the correct password.

Ordering

- Free standard samples; customised samples carry a setup fee.
- Standard lead time is 2–3 weeks.
- Quote-only pricing—send your quantity for a quotation.
- Printing, numbering and encoding options are available for the selected product and material.

Contact

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Specifications are supplied for guidance; confirm the exact chip, material and encoding for your project.