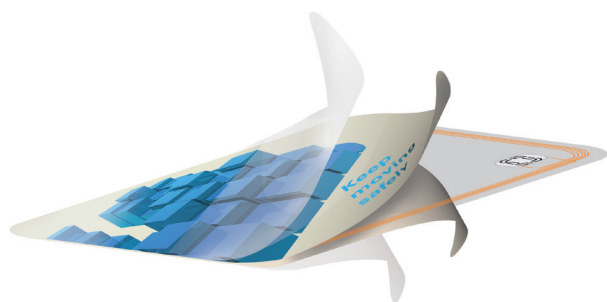




CARDS & RFID



The **card** division of Calmell has evolved to offer all **manner of products** for every sector, namely, public transport, loyalty and accessibility, having cards without chip (with or without magnetic strip) and with chip in all its technologies: **contactless, contactless and dual**.

With regard to **graphic customisation**, the cards can be printed in multiple colours and tailor-made both physically and electronically (coding).

Physical customisation may include signature panel, hologram, magnetic strip, with the possibility to add any numerical or graphic element such as identification number, barcodes, QR codes, alongside user data and photographs.

We offer mailing services: letter and envelope printing, envelope filling next to the card and shipping to the required address.

CONTACTLESS CARDS

FAMILY	PRODUCT	RF INTERFACE	OPERATING DISTANCE	FREQUENCY	MEMORY SIZE
MIFARE®	Ultralight, Ultralight C, Ultralight EV1, Ultralight AES Classic 1K EV1, Classic 4K EV1 Plus X, Plus S, Plus SE, Plus EV2 DESFire Light, DESFire EV1, DESFire EV3	ISO-14443-A	> 7 cm	13,56 MHz	48 byte / 192 byte / 128 byte / 144 byte 1 kB / 4 kB 1 kB / 2 kB / 4 kB 640 byte / 2 kB / 4 kB / 8 kB
Calypso®	Calypso® LIGHT Calypso® basic Calypso® PRIME	ISO-14443-B	> 5 cm	13,56 MHz	2/4/8/18 kB
ICODE®	ICODE DNA ICODE SLIX ICODE SLIX 2 ICODE SLIX-L ICODE SLIX-S ICODE ILT ICODE ILT-M	ISO-15693	> 10 cm	13,56 MHz	2016 bit 896 bit 2528 bit 256 bit 1280 bit 512 bit 512 bit
CIPURSE®	CIPURSE-T CIPURSE-L CIPURSE-S	ISO-14443-A	> 7cm	13,56 MHz	8 kB 2/4 kB 2 kB
Tarjetas de memoria	ST25TB512-AC ST25TB512-AT	ISO-14443-B	> 7cm	13,56 MHz	512 bit

CONTACT CARDS/INTERFACE CARDS/ DUAL

TYPE	PRODUCT	INTERFACE	MEMORY SIZE
Memory cards	SLE 4442 / SLE 5542	ISO-7816	2 kbit
Calypso	Calypso® basic Calypso® PRIME	ISO-7816 and ISO-14443-B	2/4/8/18 kB
Java	JCOP3 / JCOP4	ISO-7816 and ISO-14443-A	144 kB
SAM MODULES	SAM AV2 SAM AV3	ISO-7816	128 16-byte keys (3 version per key)

