

Gallagher

Cards, Keyfobs and Encoding

A range of cards and transponders for different reader technologies is available from Gallagher. Gallagher also offers various encoding options.



Gallagher tests each type of card and keyfob it supplies across its full range of reader hardware (current and supported legacy hardware). These access tokens perform across the Gallagher reader range, unless otherwise specified.



C196350 Mifare Classic Card (1K) - ISO
 C196330 Mifare Classic Card (4K) - ISO
 C196310 Mifare Classic Card (1K) - ISO
 - Non-Punchable

C297172 Mifare Plus (2K) S Type - ISO
 C297272 Mifare Plus (2K) X Type - ISO
 C297174 Mifare Plus (4K) S Type - ISO
 C297274 Mifare Plus (4K) X Type - ISO
 C297372 Mifare DESFire (2K) EV1 - ISO
 C297374 Mifare DESFire (4K) EV1 - ISO
 C297378 Mifare DESFire (8K) EV1 - ISO
 C196450 125 kHz Card

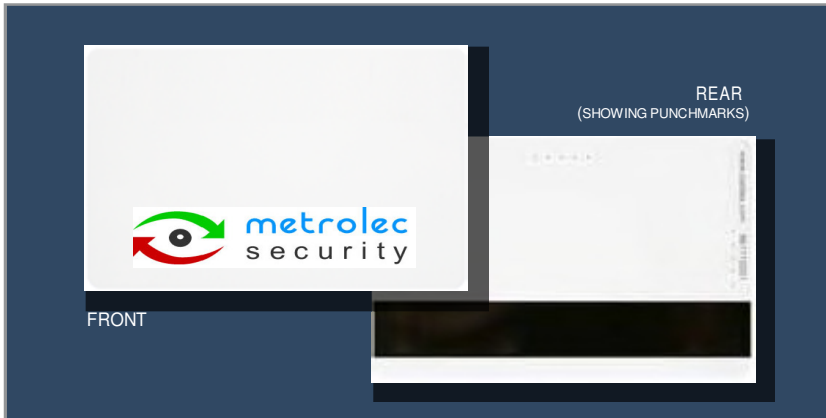
C196430 125 kHz / Mifare 1K Card
 - Non-Punchable

C196490 125 kHz Prox / Mifare 4K Card
 - Non-Punchable



C196410 125 kHz Clamshell Card

Access Token Technologies



- C196370 Mifare Classic Prox Magstripe Card (1K) - ISO
- C196340 Mifare Classic Prox Magstripe Card (4K) - ISO
- C196470 125 kHz Prox Magstripe Card - ISO



- C196100 TIRIS 1.3mm Card



- C870560 Ultracard PVC Hi-Co Magstripe Card



C196300
Mifare Classic Keyfob (1K)
(Not for use with the Gallagher IDT)



C196400
125 kHz Keyfob - Black
(Epoxy)



C196110
TIRIS "Keyring"
Transponder

Access Token Attributes

	Programmable	Reprogram- mable	Punchable	ISO Thickness	Dye-Sublima- tion Printing
MIFARE TECHNOLOGY					
C196350 Mifare Classic Card (1K)	✓	✓	✓	✓	✓
C196330 Mifare Classic Card (4K)	✓	✓	✓	✓	✓
C196310 Mifare Classic Card (1K) - Non-Punchable	✓	✓		✓	✓
C196300 Mifare Classic Keyfob (1K)	✓	✓			
C297172 Mifare Plus (2K) S Type	✓	✓		✓	✓
C297272 Mifare Plus (2K) X Type	✓	✓		✓	✓
C297174 Mifare Plus (2K) S Type	✓	✓		✓	✓
C297274 Mifare Plus (2K) X Type	✓	✓		✓	✓
C297372 Mifare DESFire (2K) EV1	✓	✓		✓	✓
C297374 Mifare DESFire (4K) EV1	✓	✓		✓	✓
C297378 Mifare DESFire (8K) EV1	✓	✓		✓	✓
125 KHZ TECHNOLOGY					
C196450 125 kHz Card	✓	✓	✓	✓	✓
C196410 125 kHz Clamshell	✓	✓			
C196400 125 kHz Keyfob (Black)	✓	✓			
TIRIS TECHNOLOGY					
C196100 TIRIS 1.3mm Card	✓	✓			
C196110 TIRIS Keyring	✓	✓			
MAGSTRIPE TECHNOLOGY					
C870560 Ultracard PVC Hi-Co Magstripe	✓	✓	✓	✓	✓

Access Token Attributes continued

	Programmable	Reprogram- mable	Punchable	ISO Thickness	Dye-Sublima- tion Printing
DUAL TECHNOLOGY					
C196370 Mifare Classic Prox Magstripe Card (1K)	✓	✓ ✓	✓		✓
C196340 Mifare Classic Prox Magstripe Card (4K)	✓	✓	✓		✓
C196470 125 kHz Prox Magstripe Card		✓			✓
C196430 125 kHz Prox/ Mifare 1K	✓	✓ ✓	✓		✓
C196490 125 kHz Prox/ Mifare 4K					✓

Card Accessories

C870570 Adhesive-backed PVC labels

- Printable
- Pack of 100

Encoding Options

Gallagher provides two options for card encoding:

- through Gallagher PhotoID or Encoder III
- by Gallagher or your Gallagher Channel Partner

PHOTOID CARD ENCODING

Gallagher enables users to encode only, or to print and encode in the same operation, through the Command Centre graphical user interface using the PhotoID optional feature.

A separate encoding package for Magstripe and Mifare technology is no longer required. Mifare Classic and Mifare Plus cards can be encoded using the Cardax Mifare USB Encoder.



Mifare® Encoding

The Gallagher Mifare USB Encoder supports the encoding of:

- Mifare Classic 1K and 4k cards
- Mifare Plus 2K and 4K cards in both standard security 'S' and extra secure 'X' variants.

For more information on card technology choices please refer to the data sheet for Gallagher T10, T11 & T12 Readers and "Technology Choice" brochure, both available from www.cardax.com.

Please refer to the "Compatible Technologies" page on the Cardax website www.cardax.com for the latest information on compatible printers for Mifare Classic, Mifare Plus and Magstripe card encoding.

Please contact your Gallagher Channel Partner to have your Mifare DESFire cards encoded by Gallagher.

Magstripe Encoding

Any data may be encoded on tracks 1, 2 or 3 of the card. Cardax IV card data is encoded to track 1 only.

For printer connectivity refer to printer manufacturer's specifications.

GALLAGHER ENCODER III

Gallagher Encoder III is a user friendly software package that allows the on-site encoding of 125kHz proximity cards and keyfobs, Mifare Classic smart cards and magstripe and TIRIS cards.

Using an industry standard Microsoft® Windows® XP or Windows 7 operating system, Encoder III allows the encoding of 125kHz Proximity Transponders, Magstripe Cards with access control data. Encoder III is used in conjunction with the Encoder (125, Magstripe, TIRIS).

Gallagher Encoder (TIRIS Series)
The Gallagher Encoder (TIRIS Series) is a cost effective compact and operator friendly unit that connects straight to the PC, for encoding TIRIS proximity cards.

Mifare Card Encoding
While Gallagher Encoder III is capable of Mifare Classic card encoding Gallagher strongly recommends sites opt for the Command Centre PhotoID and Encoding optional feature for all Mifare card encoding technology.

Please refer to the Gallagher PhotoID and Encoding data sheet available from www.cardax.com.

Gallagher Encoder (125 kHz)
The Gallagher Encoder (125 kHz) is used for encoding and re-encoding Gallagher 125 kHz proximity cards.

Gallagher Encoder (Magstripe)
The Gallagher Magstripe Encoder is used for encoding magnetic stripe cards.



Proximity Encoder (TIRIS)









Proximity Encoder (125 kHz)



Encoder (Magstripe)



April 2011			
TECHNICAL SPECIFICATIONS		Mifare ISO Card	125 ISO Card and Dual Technology ISO Card
Dimensions	Length	85.7 mm	85.7 mm
	Width	54.0 mm	54.0 mm
	Thickness	0.68 - 0.84 mm	0.68 - 0.84 mm
Temperature	Operating	-10° - 50°C (14° - 122°F)	-35° - 50°C (-30° - 122°F)
	Storage	-25° - 50°C (-13° - 122°F)	-25° - 50°C (-13° - 122°F)
TECHNICAL SPECIFICATIONS		Mifare Keyfob	
Dimensions	Length	50.8 mm	
	Width	31.5 mm	
	Thickness	9.5 mm	
Temperature	Operating	-25° - 55°C (-13° - 131°F)	
	Storage	-25° - 75°C (-13° - 167°F)	
TECHNICAL SPECIFICATIONS		125 kHz Keyfob Epoxy (Black)	
Dimensions	Length	45 mm	
	Width	30 mm	
	Thickness	1.6 mm	
Temperature	Operating	-40° - 95°C (-40° - 203°F)	
	Storage	-40° - 85°C (-40° - 185°F)	
TECHNICAL SPECIFICATIONS		125 kHz Clamshell Card	TIRIS Card
Dimensions	Length	85.7 mm	85.7 mm
	Width	54.0 mm	54.0 mm
	Thickness	1.7 mm	1.3 mm
Temperature	Operating	-10° - 50°C (14° - 122°F)	-10° - 50°C (14° - 122°F)
	Storage	-25° - 50°C (-13° - 122°F)	-40° - 100°C (-40° - 212°F)
TECHNICAL SPECIFICATIONS		TIRIS Keyring	
Dimensions	Length	44 mm	
	Diameter	6 mm	
Temperature	Operating	-25° - 85°C (-13° - 185°F)	
	Storage	-40° - 100°C (-40° - 212°F)	
TECHNICAL SPECIFICATIONS		Magstripe Card	
Dimensions	Length	85.7 mm	
	Width	54.0 mm	
	Thickness	0.76 mm	
Temperature	Storage	+5° - 30°C (41° - 86°F)	

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TECHNICAL SPECIFICATIONS	Gallagher Encoder III			
Operating System	Microsoft® Windows® Windows® XP or Windows 7			
Operators	Max. Number	Unlimited		
Operator Authorisation Levels	Fully configurable			
TECHNICAL SPECIFICATIONS	Gallagher Encoder (TIRIS)			
Dimensions	Length x Width x Depth	190 x 134 x 54 mm		
Power Supply (not supplied by Cardax)	Voltage Current	12.5 V DC 250 mA		
Temperature Range	-10° to +55°C			
Communications	RS 232			
TECHNICAL SPECIFICATIONS	Gallagher Magstripe Encoder			
Dimensions	Length x Width x Depth	280 x 120 x 110 mm		
Power Supply	Current	180-260 V AC 60 Watts		
Temperature Range	5° to 40°C			
Encode Rate	14 per minute			
TECHNICAL SPECIFICATIONS	Gallagher Mifare USB Encoder			
Dimensions	Length x Width x Depth	118 x 78 x 22 mm		
Temperature Range	0° – 50°C			
Power & Communications	USB			
TECHNICAL SPECIFICATIONS	Gallagher Encoder (125 kHz)			
Dimensions	Length x Width x Depth	190 x 134 x 54 mm		
Power Supply (not supplied by Cardax)	Voltage Current	13.6 V DC + or -15% 250 mA		
Temperature Range	-0° to +50°C			
Communications	232			
 <p><i>Where quality and reliability is our guarantee!!</i></p>				
 www.gallaghersms.com	Gallagher Security Kahikatea Drive, Hamilton 3206 Private Bag 3026, Hamilton 3240 New Zealand Phone: +64-7-838 9800 Fax: +64-7-838 9801 Email: cdxsales@cardax.com	Offices and Representatives are located in: Asia Middle East Australia New Zealand Canada South Africa Central America South America China United Kingdom Europe United States of America	 	
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