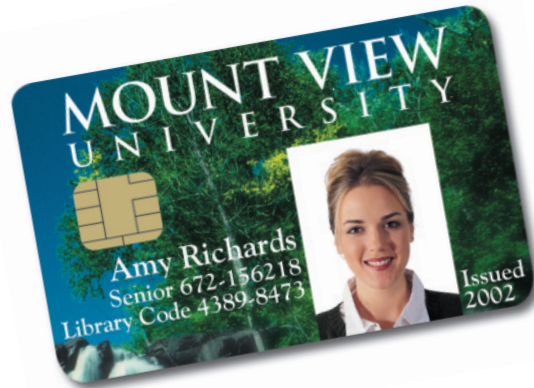# New!
E-Card Encoding From FARGO!

Select FARGO Card Printer/Encoders Now Feature Advanced E-card Encoding Options!

FARGO offers you the ultimate flexibility in smart card personalization: Encode or read up to three different types of e-card technology in one card – whether a hybrid, combi, or single technology smart card!

Electronic Card Technologies

FARGO Card Printer/Encoders are available with an internal E-Card Docking Station and one, two or three E-Card Encoders, to manage these emerging electronic card technologies:

> **ISO 7816 contact smart chips –** *the world's most commonly used contact smart card standard (read and write)*

> **MIFARE® contactless smart chips** *(read and write)*

> **HID proximity ("prox") cards** *(read-only)*

Additional Features

Use your FARGO Card Printer/Encoder to print full color graphics and photos, and encode e-cards and magnetic stripes.

High Definition Printing™ (HDP™)

FARGO's HDP technology lets you print on cards up to 60 mil thick, over surface-mounted smart chips, and even onto non-glossy "clamshell" type proximity cards.

Open Architecture

We can factory-install an E-Card Docking Station without encoders – containing only the read/write pins required to connect ISO contact smart cards to encoding electronics. Qualified system integrators can customize the E-Card Docking Station with electronics to meet the unique specifications of any smart card system.

ISO or JIS II Magnetic Encoding

FARGO Card Printer/Encoders can be equipped with magnetic heads for ISO or JIS II magnetic stripe encoding.

Encoding Error Detection

If the application program detects a card encoding error, it can direct the printer/encoder to eject the card before it reaches the print station. There's no need to waste ribbon panels on cards that fail encoding!

Color Printing

Don't forget FARGO's legacy: High quality, full color, dye-sublimation and resin thermal transfer printing. After encoding, print one or both sides of a card – in a seamless, one-pass process.

FARGO®

Glossary

smart card

E-Card Docking Station
A factory-installed component containing read/write pins (as defined by ISO) that communicates with contact smart cards. Option available on select FARGO Card Printer/Encoder models.
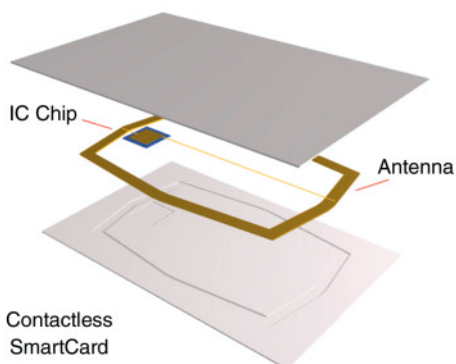
E-Card Encoder
E-Card Encoders installed in an E-Card Docking Station provide everything needed for an application program to communicate with from one to three specific types of e-card technology through a standard RS-232 interface.

Contact Smart Card Encoder
The Contact Smart Card Encoder connects the ISO contact pins mounted on the E-Card Docking Station to a Gemplus® GemCore® 410 smart card coupler (ISO 7816 Parts 1-4; T=0 and T=1) mounted inside the printer/encoder. The GemCore 410's digital I/O is converted to a RS-232 signal which is accessible to application programs through a dedicated DB-9 port on the outside of the printer/encoder labeled "Smart Card."

Contactless Smart Card Encoder
The Contactless Smart Card Encoder connects an antenna mounted on the E-Card Docking Station to a Gemplus GemEasyLink 680S coupler mounted inside the printer/encoder. Application programs can access MIFARE contactless cards via a RS-232 signal through a dedicated DB-9 port on the outside of the printer/encoder labeled "Contactless."

IC Chip — Antenna — Contactless SmartCard

Prox Card Encoder
The Prox Card Encoder uses a HID ProxPoint® Plus reader mounted on the E-Card Docking Station inside the printer/encoder. The ProxPoint is a "read only" device producing a Wiegand signal that is converted to RS-232 using a Cypress Computer Systems CVT-2232. Application programs can read information from HID prox cards via a RS-232 signal through a dedicated DB-9 port on the outside of the printer/encoder labeled "Prox."

Antenna — Integrated Circuit
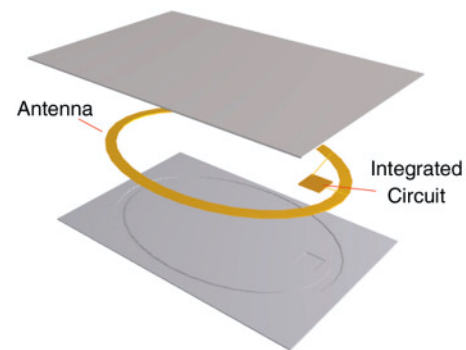
ISO Magnetic Stripe Encoding
International Standards Organization specification for magnetic stripe encoding. The FARGO encoder supports dual high/low coercivity and tracks 1, 2 and 3.

JIS II Magnetic Stripe Encoding
Japanese Industrial Standard for magnetic stripe encoding; published and translated into English by Japan Standards Association.

FARGO

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