



Entrust Datacard® CR805 Retransfer Printer Product Guide

Introducing the next generation of on-demand desktop retransfer printing.



ENTRUST

SECURING A WORLD IN MOTION

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The Ultimate Printing Experience

Reset your expectations! Prepare yourself for the ultimate identity platform The Entrust Datacard® (formerly Artista) CR805 Retransfer Printer with Card Lamination module (CLM) was developed with enhancements to provide the best print-on-demand experience available in the market today. We've combined advancements in image quality, durability, modularity, security, and reliability that will change the way you think about card printing.

Entrust Datacard® (formerly Artista) CR805 Retransfer Printer

Requirements for print-on-demand solutions are constantly changing as customers look for reliability, flexibility, and ease of use in their card printers. Entrust is pleased to announce a new addition to our portfolio of print-on-demand solutions with the Entrust Datacard® CR805 Retransfer Printer. Using retransfer technology coupled with a number of unique features, the Entrust® Datacard® CR805 printer delivers vibrant, detailed cards with over-the-edge-printing. This print technology allows the capability to create sophisticated photo-quality cards with lifelike skin tones, rich colors, and fine line details.

Retransfer printing also provides flexibility for customers to design the card they want. It enables customers to print on a variety of card substrates as well as on uneven surfaces, such as contact and contactless smart cards. Since retransfer printing provides full coverage, customers can reduce costs by printing on blank white cardstock, instead of pre-printed cards. The combination of retransfer printing coupled with new and unique features makes the Datacard® CR805 printer an industry choice for high-quality printing.

Features

The Entrust Datacard® CR805 printer was designed with customers in mind. We developed this new platform based on input from customers, input from partners, our years of experience in printer development, and demands of the market.

We focused on card design capability, enhanced durability and security, ease of use, reliability, and connectivity. In addition, we are providing a complete solution, with genuine Entrust supplies and integrated Instant ID Issuance Software and Adaptive Issuance™ Remote Monitoring and Management Software.

The design and options with this platform provide almost endless possibilities to meet the demands of card programs in the market today. The Entrust® Datacard® CR805 Retransfer Printer with Card Lamination Module is available in the 125 single hopper solution or multi-hopper option with six removable hoppers. Each hopper holds up to 125 cards.

Entrust Datacard®
CR805 Retransfer
Printer



Single Hopper
CR805 w/CLM



Multi-Hopper
CR805 w/CLM



Pigment Ink

Pigment ink provides long-lasting, photo-quality images. Pigment ink has been proven to last longer than dye. It is not susceptible to fading from exposure to UV light, and it tends to be less susceptible to plasticizers. With durability that preserves image quality and print details to extend the card life, pigment ink reduces the need for costly card replacement.

600 dpi Printing

High-resolution, 600 dpi printing improves the design capability for any card program, and the ability to reproduce fine lines. It enables the use of additional design elements, such as high-resolution bar codes, OCR, and small font printing. Our testing has shown clear, crisp printing down to 2-point font in solid black text, allowing for printing small text or unique characters.

- Decorative and serif fonts may require a larger point size than sans serif fonts for readability.
 - For optimum readability, use font size 2 and above for sans serif
 - For optimum readability, use font size 4 and above for decorative and serif
- If the text to be printed uses an alphabet that is not based on Latin characters (for example Arabic, Chinese, Japanese) then the smallest character sizes that can be reliably printed must be determined through testing using the required font, color, as well as the intended cardstock.

Removable Input Hopper Options

Removable input hopper options help ease day-to-day card management and card handling issues. The hopper easily locks in place at the start of the day and can be easily removed to secure cards in the vault. The multi-hopper helps to support multiple card options for the print on demand solution. The multi-hopper Entrust® Datacard® CR805 Retransfer Printer with Card Lamination Module also has a separate exception card input to support specialty cards without interfering in the issuance from the other six hoppers.

- Single hopper holds up to 125 cards
- Multi-hopper holds up to 6 hoppers with up to 125 cards per hopper (750 cards total)
- Separate exception slot for single cards or specialty cards

WiFi (Available via Upgrade Kit)

Enables you to use the printer via WiFi – supports the following:

- WiFi types: 802.11g/n
- Authentication modes: None

WPA2 Personal

- Dual-band: 2.4GHz & 5GHz
- WiFi using one network (SSID) and Ethernet wired connection
- WiFi using one network (SSID) and USB connection

Selectable Color Modes

The Entrust® Datacard® CR805 printer comes standard with three options for color printing.

- **True Color (ICC)** – prints as close as possible to color in the image file
- **Legacy SR/CR** – prints as close as possible to the SR200, SR300, SR300e card printers
- **Vivid** – printer colors with higher saturation and contrast

True Color mode is the default mode when the CR805 card printer is shipped from the factory. For more information on changing the color mode, refer to the User's Guide or the How-to Video.

Enhanced Card Durability with Two Layers of Retransfer Film

The Entrust® Datacard® CR805 printer has the option to add an additional layer of retransfer film. This extra layer can be added on the front and/or the back of the card to extend card life.

IMPORTANT NOTE: A second layer can't be added if there is a magnetic stripe or signature panel on the card.

Inline Lamination for Additional Durability and Security

The Entrust® Datacard® CR805 printer with CLM provides inline lamination and long-lasting durability with the DuraGard® 1 mil laminates, to extend the life of the card. Secure custom or generic holographic designs can be added at various levels for enhanced security. In addition, the tactile impression feature can be added, providing additional security and promoting the customer brand.

The Entrust® Datacard® CR805 printer will work with the same lamination module that's available with the CD800™ card printer today, as long as the metal rollers are changed to rubber rollers with the upgrade kit. Customers with an existing CD800 card printer with CLM can upgrade the print technology, transitioning from direct-to-card to retransfer printing by replacement of the CD800 card printer with the Entrust® Datacard® CR805 printer on top of the laminator and by replacing the metal laminator rollers with rubber lamination rollers.

Entrust® Datacard®
CR805 printer
with CLM



When the CD800 card printer is swapped for the Entrust® Datacard® CR805 card printer, the laminator will recognize the new printer, and appropriate sets are adjusted to support the CR805 card printer and laminates. Load new supplies and it's ready to go!

Note: The CR805 laminator supplies are different than with direct-to-card printing. New supplies will have to be ordered to work with retransfer printing and the steel rollers will need to be changed to rubber rollers in the CLM module. Refer to the CR805 supplies data sheet for specific CR805 laminator supplies.

Tactile Impression Module

An affordable way to add branding to your program in select colors with a color tactile ribbon. The color tactile feature is very visible and an easily recognizable item on the card that enhances your branding while bringing a low-level security feature to your cards. There are multiple color tactile ribbons available: White, Black, Silver, Gold, Copper, and Clear.

Note: Ribbon is required.



Modularity for Magnetic Stripe Encoding and Smart Cards

The Entrust® Datacard® CR805 is easy to update with smart card or magstripe encoding options as card program demands change. The outside skins of the printers are easily removed and a transport module with the encoder already attached can be added quickly and easily by snapping into place within the printer without the use of tools. A list of upgrade options is listed in the bid specification portion of this document.

Note: If the Entrust® Datacard® CR805 printer already has an encoder (either magstripe or smart card) and the user wants to add additional functionality, an entirely new upgrade kit will have to be ordered. For example: Entrust® Datacard® CR805 has magstripe encoding module and customer wants to add smart card encoding. Order an upgrade kit that has magstripe and appropriate smart card encoding option.

Enhanced System Security

The Entrust® Datacard® CR805 printer supports SSL, 3DES, TLS 1.1, TLS 1.2, and TLS 1.3 encryption to safeguard the transmitted data.

Trusted Platform Module (TPM) - In addition, the Entrust® Datacard® CR805 has a TPM to provide a secure location to store and manage certificates and keys. Utilizing RMM (remote monitoring and management), the IT staff can insert, manage, and remove end-user certificates and keys.

Secure Boot - The Entrust® Datacard® CR805 printer was the industry's first printer to provide Secure Boot, a patent-pending security feature that protects the printer from outside intrusion to limit malware insertion. If the printer detects malware and memory compromises, it will not boot up until the detected malware and compromises have been removed. Note: Service call is needed to address the compromise.

For any technical issues, please contact the Entrust support teams at the phone numbers listed below:

- Americas +1 800.328.3996 or +1 952.988.2316
- Europe, Middle East, and Africa (EMEA) +44 1489555627
- Asia Pacific +852 28210126

Single-Wire Connectivity

Single-Wire Connectivity reduces complexity by providing 1 driver for all printer functions: printing, magstripe, and smart card encoding.

With a 1 printer to 1 driver ratio, this feature is easily scalable as additional printer sites are added. The drivers can be installed on a PC or server, depending on the application.

Integrated Solution

The CR805 card printer is designed and tested as an integrated solution, encouraging the harmonious use of the hardware, software, supplies, and services, making it ideal for many different card programs. The flexibility and modularity of the system ensures easy upgrade of the system as program needs change. Entrust has a long history of providing trusted solutions for card printing to end-users, and with the Entrust® Datacard® CR805 printer this tradition continues.

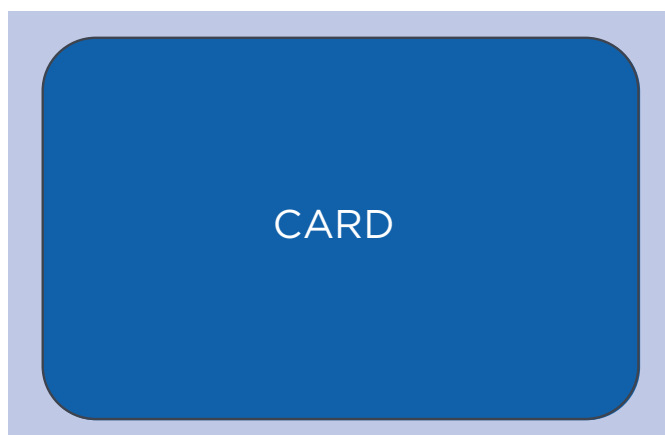
Debow System

Card aesthetics are very important to customers, and the new, patented debow feature in the Entrust® Datacard® CR805 printer ensures the delivery of flatter cards. The cards printed on the CR805 card printer with debowing meet the latest ISO standards for card flatness. This feature is standard with every Entrust® Datacard® CR805 printer.

Image Canvas Size

Recommended canvas size at 600 dpi or 2100 x 1344 (image size being sent to the printer). This equates to physical size of 3.5" x 2.24" (88.9mm x 56.9mm)

Note: Image is larger than the standard card (3.375" x 2.125" (85.73mm x 53.98mm)) to provide the full card coverage. This sizing is built into the Instant ID Issuance software, but if you're using third-party software, this adjustment will have to be made.



Market Opportunities

The Entrust® Datacard® CR805 printer represents the next generation of on-demand card printing. We know that the quality of the cards issued goes a long way toward building positive impressions with the cardholder. With the retransfer printer, end customers can create cards that really stand out from the crowd. With brilliant color, stunning resolution, and long-lasting images, these cards will stand the test of time. With improved durability and security enhancements, this printer will reset expectations for instant issuance card quality and system security.

The Entrust retransfer printer series gives customers the power to enhance their brand image, improve the security and durability of their cards, and provide reliable print-on-demand issuance. Cards whenever and wherever they need them.

The Entrust® Datacard® CR805 printer is specifically designed for those applications and/or markets that require any of the following:

- Physical card security
- Extended card life
- Secure printing environment
- High level of quality and reliability
- An integrated solution incorporating hardware, software, and supplies

The Entrust® Datacard® CR805 printer is feature-rich yet competitively priced, which opens up new market opportunities.

The CR805 card printer is ideal for:

- Government – national ID, driver's licenses, and voter ID cards
- Universities, colleges, and higher education
- State, local, or municipal government authorities
- Ministry of defense, military ID, and secure facility identification
- Emergency services: Police, fire, and ambulance services
- Healthcare – Staff ID cards, admissions, and health savings account
- Bureaus – Outsource services and support and augment card replacement programs
- Corporate ID and access control



Entrust® Datacard® CR805 Retransfer Printer Features

The Entrust® Datacard® CR805 printer has the following features that make it a reliable choice for any card printing needs.

- **Removable single hopper** – The single input hopper has a capacity of up to 125 cards with an additional exception card feed slot.
- **Magnetic stripe encoding (optional)** – Magnetic stripe encoding that meets the ISO 7811 standard for high and low coercivity
- **Dual contact/contactless single** – The encoder allows for one network connection going into the Entrust® Datacard® CR805 printer, which lets the printer and smart card communicate through a single network connection with encoding to MIFARE, ISO 7816, and ISO 14443 A/B
- **Dual contact/contactless two wire smart card encoder (optional)** – The encoder allows for two wire connections going into the CR805 card printer, which lets the printer and smart card communicate through USB connection with encoding for iClass, PC Prox, MIFARE, ISO 7816, and ISO 14443 A/B
- **Locks (optional)** – Physical locks on the printer to prevent unauthorized access to the input hopper and supplies
- **Standard LCD display panel on printer** – Provides system status, 2-line LCD displays warnings, error message and current system status, and access to menu subsystems
- **Cable lock bracket (optional)** – Hardware lock that allows the system to be physically locked to a desk or table
- **Printer manager** – Web-based printer manager is used for printer configuration and changing printer settings
- **Integrated Solution** – Entrust® Datacard® CR805 card printer is designed for maximum efficiency with genuine Entrust supplies and Entrust Instant ID Software

Entrust® Datacard® CR805 Retransfer Printer With Card Lamination Module

Requirements for instant card issuance are constantly changing as customers look for new ways to increase security, durability and versatility for their cards and credentials. Entrust is pleased to announce a number of unique features that will meet those ever-increasing needs! These new features are available in our Entrust® Datacard® CR805 printer with Card Lamination Module (CR805 card printer with CLM). The Entrust® Datacard® CR805 printer with CLM is built upon the same great technology as the Entrust CR805 printer, with added features and functionality that will appeal to most customers. In addition, we have improved the quality and the reliability to make this an industry choice for high-quality printing and lamination. Entrust is committed to making our channel partners successful by offering the most innovative solutions in the industry. The variety of security and durability features make the Entrust® Datacard® CR805 printer with CLM the most impressive in the market.



Features

Entrust has a wide variety of options to provide the level of security and durability customers require for their ID programs. We have a unique value proposition for our customers, as we have the ability to meet almost any need from a security, durability, and aesthetics standpoint to create any card or credential with the Entrust® Datacard® CR805 card printer with CLM. The Entrust® Datacard® CR805 printer with CLM is a single system that encodes, prints, and laminates in one pass and allows users to utilize a variety of new features.

- **Tactile Impression** – Entrust has a unique, patented tactile impression feature that is available as an option with the Entrust® Datacard® CR805 printer with CLM. The tactile impression feature creates an impression on the card substrate, adding an additional opportunity for increased security and personalization. The tactile impression process uses special technology and a unique die to create the impression, which differs from the embossing or indenting technology available today. When used with a patch laminate, it helps make the card tamper-evident and provides an even higher level of security.
- **Modularity** – The Entrust® Datacard® CR805 card printer with CLM Module can be added to existing CR805 simplex or duplex printers.
- **Debow System** – Card aesthetics are very important to customers, and the new, patented debow feature in the Entrust® Datacard® CR805 card printer with CLM ensures the delivery of flatter cards. The cards printed on the CR805 card printer with CLM meet the latest ISO standards.
- **Lamination Station** – The Entrust® Datacard® CR805 card printer with CLM comes standard with single sided lamination and optional dual-sided lamination to the card.

Optional Tactile Impression Feature

The patented tactile impression feature is available as an option with the Entrust® Datacard® CR805 printer with CLM. There are two components to the tactile impression feature: the tactile impression module (hardware) and the tactile impression die (supply).

If a tactile impression feature is desired, then the tactile impression module option should be ordered at the same time as the Entrust® Datacard® CR805 printer with CLM.

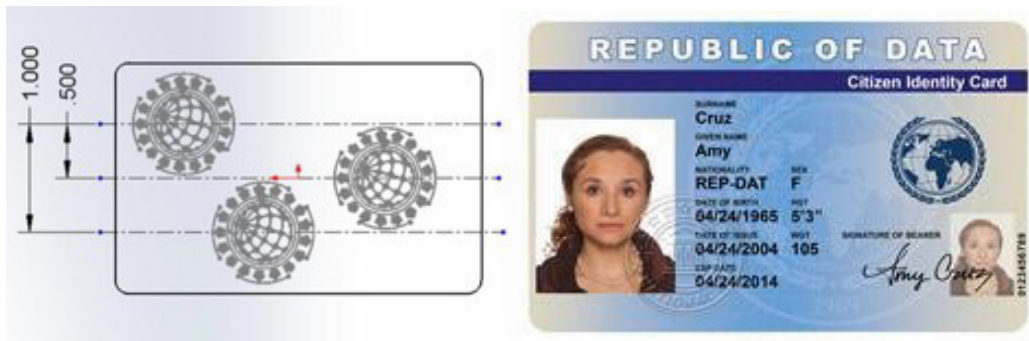
Customers have the option to purchase one of the generic tactile impression designs that are available or create a unique, custom design specific for their ID card program. The tactile impressions can contain text, logos, and outlines of images that will vary in design and complexity.

The laminator will ship with a stock Entrust hexagon character. Then, upon receipt of the generic or custom tactile impression ordered, the channel partner will replace the stock tactile impression die prior to shipment to the customer.

- **Tactile Impression Positioning** - The tactile impression can be placed in various positions on the card. There are some key considerations when designing a card with the tactile impression feature:

- Position over the magstripe and antenna chip should be avoided

- Following design best practices outlined in the Tactile Impression Best Practices Guide will be critical. For example, orientation of the card layout and impressor die feature is critical in order to ensure the proper portrait or landscape design layout is obtained.



- The impression can be made in three distinct areas vertically in the card, but can be moved across the card horizontally and impressed where desired.
 - There are specific regions for imprinting set in the print manager. Refer to the user guide for information on changing the settings.
- **Generic Tactile Impressions** – Entrust will have several generic tactile impressions to choose from. The artwork below shows a variety of examples of potential tactile impressions.
 - **Custom Tactile Impression Origination Process** – The process for requesting a custom impression die will be very similar to that for custom holographic overlays. An Entrust genuine supplies custom tactile impression guide and order form will be available on Partner Central, outlining the various grades and guidelines for placement of the impression in the design of the card.

The tactile impression feature is a great opportunity to increase security and branding on the card during personalization. Below is a sample of some tactile dies.



Tactile Impression Module (TIM)

There are multiple color options for tactile foil cassettes to choose from for adding eye-catching color to your cards:

- White gloss
- Black gloss
- Silver metallic
- Gold metallic
- Copper metallic

The unique Tactile Impression Module is available as an option with the Entrust® Datacard® CR805 printer. There are two components to the tactile impression feature: the Tactile Impression Module (hardware) and the tactile impression die (supply). If a tactile impression feature is desired, then the Tactile Impression Module (TIM) should be ordered at the same time as the CR805 card printer.

Customers have the option to purchase one of the generic tactile impression designs that are available or have the ability to create a unique, custom design specific for their ID card program.

The TIM will ship with a stock Entrust hexagon character. Then, upon receipt of the generic or custom tactile impression ordered, the channel partner will replace the stock hexagon tactile impression die prior to shipment to the customer.

Tactile Impression Positioning

The tactile impression can be placed in various positions on the cards. There are some key considerations when designing a card with the Tactile Impression Module:

- Position over the magstripe and antenna chip should be avoided.
- Following design best practices outlined in the **Tactile Impression Best Practices Guide** will be critical. For example, orientation of the card layout and impressor die feature is critical in order to ensure the proper portrait or landscape design layout is obtained.



- The impression can be made in two distinct areas vertically on the card, but can be moved across the card horizontally and impressed where desired.
- There are specific regions for imprinting set – refer to the user guide for information on changing the settings.

Generic Tactile Impressions

Entrust has several generic tactile impressions to choose from.

Custom Tactile Impression Origination Process

The process for requesting a custom impression die will be very similar to that for custom holographic overlays. A genuine Entrust supplies custom tactile impression guide and order form is available on Partner Central, outlining the various grades and guidelines for placement of the impression in the design of the card.

Consumable Supplies Overview

The Entrust® Datacard® CR805 printer features specialized print ribbons, retransfer film, laminates, and other supplies, all specifically designed for optimal performance combined with our Entrust patented RFID technology. When the printer recognizes that genuine Entrust supplies are installed, all enhanced product features are enabled and successful card printing can begin.

Key Features and Benefits

- Versatile high-resolution image printing from blank cardstock using pigment UV-resistant inks with precision dot placement.
- Enhanced ribbon formulations with primerless color ribbon and retransfer film that does not require a primer panel, enabling faster print speeds of 110 cards per hour.
- Extend card durability with primerless ribbons up to 50% greater in film adhesion and abrasion resistance.

Color Ribbon Kits

Ribbon kits include all necessary cleaning supplies for the CR805 card printer's daily operations. Each kit includes one ribbon assembly, one isopropanol cleaning card, one cleaning lapping stick, one cleaning swab, one adhesive cleaning sleeve, and complete loading instructions. Additional cleaning products can be ordered separately.

The panelized ribbon has a slightly different format due to the fact that it's pigment ink. The individual panel names are the same, but in a slightly different order. For the best image quality with pigment inks, the panel sequence is cyan, magenta, yellow, and black.

CMYKP-KPi ribbon



The Entrust original ribbons for CR805 include a primer panel (P) for each printed card side for image adhesion. Entrust now offers improved ribbon formulations for specific high-volume ribbon formats that eliminates the need for primer adhesion panels. Use of primerless ribbon sets require printer firmware version R4.10.2.3 or higher.

The Inhibitor Panel (i) is used for card applications containing a magstripe or signature panel. This inhibitor panel prevents film from being applied to magstripe and/or signature panels.

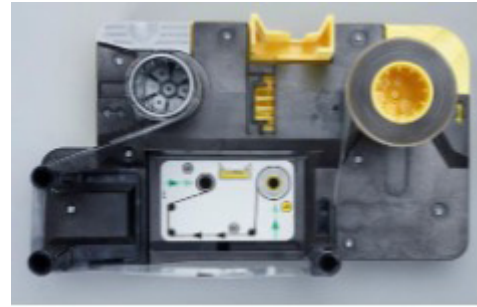
Primerless Color Ribbons

Item Number	Description	Yield Up To
513107-001	CMYK Ribbon Assembly, Pigment Ink	1,000 Simplex – 500 Duplex
513107-003	CMYK-K Ribbon Assembly – Pigment Ink	1,000 Duplex
513107-002	CMYKR Ribbon Assembly – Pigment Ink (Receptor ribbon for non-PVC or satin card surfaces)	1,000 Duplex
513157-002	Clear Retransfer Film (required use with primerless ribbons)	1,000 Simplex – 500 Duplex

Primer Color Ribbon

Item Number	Description	Yield Up To
513382-201	CMYKP Ribbon Assembly, Pigment Ink	1,000 Simplex – 500 Duplex
513382-203	CMYKP-KP Ribbon Assembly – Pigment Ink	750 Duplex
513382-204	CMYP-KPi Ribbon Assembly – Pigment Ink	750 Duplex
513382-209	CMYKP-KPi Ribbon Assembly – Pigment Ink	500 Duplex
513382-207	FCMYP-KP UV Ribbon Assembly-Pigment Ink	750 Duplex
513402-001	Clear Retransfer Film (required use with primer ribbons)	750 Duplex
513402-002	Clear Retransfer Film (required use with primer ribbons)	1,000 Simplex – 500 Duplex

Color ribbons and retransfer film are available in case quantities. Refer to the Entrust® Datacard® CR805 Retransfer Printer Supplies Data Sheet and currently published Price Pages for the most current information on ribbons, film, durability, and security supplies.



Laminates (Patches) for the CLM

Listed below in the tables are standard clear and generic laminates available for the CLM.

Item Number	Description	Yield
514910-501	DuraGard Laminate, 1.0 mil, Clear, Full Card	300
514910-502	DuraGard Laminate, 1.0 mil, Clear, Full Card with Smart Card Window	300
514910-903	DuraGard Laminate, 1.0 mil, Clear, Magnetic Stripe	300

Item Number	Description	Yield
515062-001	DuraGard OptiSelect(TM) Laminate, 1.0 mil, "Secure Globe" Full Card	300
515062-301	DuraGard OptiSelect(TM) Laminate, 1.0 mil, "Secure Globe" Full Card with Smart Card Window	300
515062-002	DuraGard OptiGram(R) Laminate, 1.0 mil, "Genuine Authentic" Full Card	300
515062-302	DuraGard OptiGram(R) Laminate, 1.0 mil, "Genuine Authentic" Full Card with Smart Card Window	300

Custom Laminates - Duragard® OptiSelect™ Security Feature Set

There is the option for OptiSelect security feature set laminates, which may have a combination of some (customer's choice) or all of the following overt and covert security features: 2D/3D holographic, OVD security designs up to 1,350 DPI, Guilloche security printing of fine line design elements, kinetic and/or animation, micro text, 2-Channel/Flip image, and UV/Mica Ink.

Custom Laminates - Duragard® OptiGram® Security Feature Set

There is the option for OptiGram security feature set laminates, which may have a combination of some (customer's choice) or all of the following overt, covert, and forensic security features: 2D/3D holographic, OVD security designs generated using E-Beam origination technology, Guilloche security printing of fine line design elements, kinetic and/or animation, micro text - multiple size text available, 2-Channel/Flip image, pseudo color, nano text, Stereogram, matte white text, UV/Mica Ink, and additional overt/covert security features available for additional cost.

Printhead Warranty

The Entrust® Datacard® CR805 printer includes a limited lifetime printhead warranty.

The Entrust® Datacard® CR805 printer requires the use of the following cleaning supplies for regular preventative maintenance:

- Adhesive Cleaning Sleeve
- Adhesive Cleaning Card
- Cleaning Swab

This is a current list of cleaning supplies available.

Item Number	Description
524554-001	All-in-one Retransfer Cleaning Kit: (1) 569946-002 cleaning sleeve 5/pack, (1) 507377-001 swabs 5/pack, (1) 552141-002 isopropanol cards 10/pack, (1) 524405-001 adhesive cards 10/pack, (2) 530030-001 lapping sticks, (1) 529147-001 support tool, and (1) 812335-001 gloves 12/pairs
524405-001	Cleaning Cards (10) Per Pack (Double-sided adhesive cleaning card for cleaning debris from card track and transport rollers.)
569946-002	Cleaning Kit, Adhesive, (5) Sleeves per Pack (Adhesive coated sleeve/roller for continuous card cleaning.)
507377-001	Cleaning Swab (5 Pack) (Isopropanol saturated cleaning swabs for cleaning debris and dust from printheads and hard-to-reach internal printer areas. This item replaces the previous cleaning pen.)
530030-001	Lapping Cleaning Stick. For cleaning printhead surface.
812526-001	Dry Cleaning Swab, for cleaning print areas of debris.
510034-001	Card Inspection Gloves (12 pair pack) (Powder-free with no natural rubber latex.)

Genuine Entrust supplies featuring patented Intelligent Supplies Technology™

The Entrust® Datacard® CR805 printer features Entrust proprietary ribbons that are designed specifically for use in Entrust card printers. When the printer recognizes that an Entrust supply is installed, all enhanced product features are enabled and successful card printing can begin. Entrust proprietary ribbons enable all enhanced product features that help you print high-quality cards more easily. When a genuine Entrust ribbon is loaded into an Entrust® Datacard® CR805 printer, the driver automatically adjusts printer settings to match the ribbon type and helps ensure the best

possible image quality on the cards. The printer and supplies then collectively track ribbon consumption and notify you of an upcoming ribbon replacement.

The printer will only print color images when genuine Entrust supplies are installed. Entrust and our designated partners are your source for genuine Entrust ribbons for the Entrust® Datacard® CR805 card printers .

Note: The printer does not require supplies to be loaded if printer will only be magstripe and/or smart card encoding.

We engineered superior performance and reliability into every system-matched supply item we offer. For you, that means smooth printing, brilliant image quality, high security, and exceptional performance. Worldwide authorized channel partners provide a fast, direct connection with the supplies and support you need, when and where you need them.

Bid Specifications

The following are the standard specifications of the Entrust® Datacard® CR805 printer with inline lamination module. Use this information when bidding the Entrust® Datacard® CR805 printer and supplies for any new or ongoing programs.

Entrust® Datacard® CR805 Retransfer Printer Standard Features

- Single-sided or dual-sided over-the-edge printing
- Full-color printing with pigment ink ribbons
- Up to 110 cards per hour single-sided CMYK ribbon
- Up to 65 cards per hour double-sided CMYK-K ribbon
- USB cable connection, Ethernet - 10/100 Base-T Ethernet (IPv4 and IPv6)
- Input hopper holds up to 125 - 0.030 in. (0.76mm) cards
- Output hopper holds up to 25 - 0.030 in. (0.76mm) cards (125 output hopper optional)
- LCD printer panel
- Audible and visual message prompts
- Automatic card feed
- Operator-replaceable printheads
- Card debow
- Color-coded supplies and cartridges; matching supplies
- Encryption: SSL, 3DES, TLS 1.1, TLS 1.2, and TLS 1.3 – certificates and keys
- Printer security
 - TPM module
 - Secure boot
- Toolless upgrade kits
- Smart card
 - Single wire – Contact ISO 7816 T=0, 1
 - Contactless ISO 14443 A/B Protocols, MIFARE Protocols & FeliCa (DES & AES)
 - Loosely coupled – Contact ISO 7816 T=0, 1
 - HID iCLASS, read/write or read-only encoder
 - PC Prox
- Windows operating systems
 - Windows 11, 32- and 64-bit
 - Windows 10, 32- and 64-bit
 - Windows 8.1, 32- and 64-bit

Standard Specifications

- Print capabilities:
 - Over-the-edge printing
 - Continuous-tone, full-color, photos
 - Alphanumeric text, logos, and digitized signatures
 - Variety of bar codes, OCR codes, QR codes
 - Background patterns
- Print resolution: 600 dots-per-inch (dpi) x 600 dpi (color)
- Print modes:
 - True Color (ICC) – prints color as close as possible to image as defined in the card design
 - Legacy SR/CR – prints as close as possible to the SR200, SD300, and SR300e card printers
 - Vivid – printer colors with higher saturation and contrast
- Electrical requirements: Dual voltage-auto sensing
 - 100/120V, 50/60 Hz
 - 220/240V, 50/60 Hz
- Communications: Bidirectional USB, Ethernet
- Plastic cards accepted:
 - Size: 3.370 in. x 2.125 in. (85.6mm) x (53.98mm)
 - Type: PVC, PVC composites, PC, PET
 - Card input size – 0.030 inches to 0.040 inches (0.76 mm to 1.01 mm)
- Resident memory: 2GB
- Climate conditions
 - 60 to 95 degrees F (15°C to 35°C)
 - 20% to 80% non-condensing humidity
- Storage conditions
 - 5°F to 140°F (-15°C to 60°C)
 - 10% to 90% - Humidity
- Lamination and topcoat capabilities
 - Lamination and duplex standard + Second laminator option
 - 1.0 mil DuraGard patch in any laminator
 - Printer automatically adapts to supply type
 - Largest DuraGard patch coverage, providing 95% card coverage

V7.2 Entrust® Datacard® CR805 Card Printer Windows driver

- Support for color and UV printing; magnetic stripe read/write and encode; smart card
- Printer automatically adjusted to the supplies and installed options
- Pre-set area to block printing on magnetic stripe, with escapes for custom areas.
- Preferences and escapes for control of lamination, debow, and impressor.
- Support for encrypted communication between driver and printer
- Software Development Kit (SDK) for Windows printer driver using built-in Windows interface. No additional files required.
- Printer status, supplies status, and card counts shown in driver user interface.
- Driver languages: English, Spanish, German, Italian, Japanese, Simplified Chinese, Traditional Chinese, Portuguese, Korean, Polish, Russian, Romanian, and Czech
- Operating system support for printer driver
 - Windows 11, 32- and 64-bit
 - Windows 10, 32- and 64-bit
 - Windows 8.1, 32- and 64-bit

Physical dimensions Entrust® Datacard® CR805 printer (depth x width x height)

- Dimensions: 21.4in X 10.1in X 15.6in (543cm X 255cm X 397cm)
- Weight: 28.0 lbs. (12.7kg)

Physical dimensions Entrust® Datacard® CR805 printer with CLM (depth x width x height)

- CR805 printer with L1
- Dimensions: 23.2in X 10.6in X 27in (589cm X 270cm X 686cm)
- Weight: 57.92 lbs. (26.3kg)
- CR805 printer with L1+L2
- Dimensions: 23.2in X 10.6in X 27in (589cm X 270cm X 686cm)
- Weight: 60.78 lbs. (27.6kg)
- CR805 printer with L1+L2+Impressor
- Dimensions: 26.6in X 10.6in X 27in (675cm X 270cm X 686cm)
- Weight: 64.96 lbs. (29.5kg)

Physical dimensions Entrust® Datacard® CR805 printer with TIM (depth x width x height)

- Dimensions: 23.2in X 10.6in X 27in (589cm X 270cm X 686cm)
- Weight: 57.92 lbs. (26.3kg)

Agency Approvals

- Printer: UL, cUL, FCC, IC, CE, VCCI, C-Tick, CCC, WEEE & RoHS (EU and China), BIS (India), KCC,

Government Approval

- FIPS 201

Options

- Multi-hopper holds up to 6 hoppers with up to 125 cards per hopper (750 cards total)
- WiFi Connection – Supports the following:
 - WiFi types: G (7 MB/s), N (100 MB/s)
 - Authentication Modes: None, WPA, WEP
 - Having WiFi using one network (SSID) and Ethernet wired connection
 - WiFi using one network (SSID) and USB connection
 - Supports Dual-Band: 2.4 GHZ & 5GHZ
- ISO magnetic stripe encoding
 - IAT/JIS capable
 - Dual high and low coercivity
 - Tracks 1,2 and 3 (1 track for NTT)
- Smart card personalization
 - Loosely coupled Identiv Contact/Contactless all-in-one reader
 - DUALi Single Wire Contact/Contactless all-in-one reader
 - pcProx Plus ID Contactless encoder
 - iCLASS read/write by HID contactless encoder
 - iCLASS SE
 - iCLASS SEOS
 - JIS magstripe
 - Bar code scanner
- Bolt down option
- Locks
- Easy to install in the field magnetic stripe and smart card field upgrade kits. No tools are required.

Special note: When upgrading an existing card printer, completely new upgrade kit must be ordered to replace existing kit. For example, if existing printer contains magstripe encoder, and end customer wants to upgrade to smart card encoder, then they must order an upgrade kit that has both.

Upgrade Kits

When ordering an upgrade kit, a model serial number will be requested.

Item Number	Description
513088-001	Upgrade Kit, third-party non-standard couplers
513088-002	Upgrade Kit, ISO magnetic stripe
513088-003	Upgrade Kit, JIS magnetic stripe
513088-004	Upgrade Kit, ISO magstripe third-party non-standard couplers
513090-001	Upgrade Kit, DUALi single wire contact/contactless encoder, ISO 7816, ISO 14443, MIFARE, DESFire, and FeliCa
513090-002	Upgrade Kit, ISO magnetic stripe, DUALi Single Wire Contact/Contactless Encoder, ISO 7816, ISO 14443, MIFARE, DESFire, and FeliCa
513090-003	Upgrade Kit, JIS magnetic stripe, DUALi Single Wire Contact/Contactless Encoder, ISO 7816, ISO 14443, MIFARE, DESFire, and FeliCa
513092-001	Upgrade Kit, loosely coupled Identiv Smart Card Contact/Contactless Reader/Encoder
513092-002	Upgrade Kit, ISO magnetic stripe, loosely coupled Identiv Smart Card Contact/Contactless Reader/Encoder
513092-003	Upgrade Kit, JIS Magnetic Stripe, loosely coupled Identiv Smart Card Contact/Contactless Reader/Encoder
513265-001	Upgrade Kit, loosely coupled pcProx Plus ID Contactless Smart Card Encoder (Read Only)
513265-002	Upgrade Kit, ISO Magnetic Stripe, loosely coupled pcProx Plus ID Contactless Smart Card Encoder (Read Only)
513266-001	Upgrade Kit, loosely coupled iCLASS by HID Contactless Smart Card Encoder (Read-Write)
513266-002	Upgrade Kit, ISO magnetic stripe, loosely coupled iCLASS by HID Contactless Smart Card Encoder (Read-Write)

Frequently Asked Questions

General

Q: What is the print speed of the Entrust B_r_a_p̃ CR805 Retransfer Printer?

A: The print speed for the C l rpsqr B_r_a_p̃ CR805 printer is:

- Single-sided (CMYK) - up to 110 cards per hour (cph)
- Double-sided (CMYK-K) - up to 65 cards per hour (cph)

Q: What standards does the magnetic stripe encoder support?

A: The magnetic stripe encoder supports ISO 7811 standards and high- and low-coercivity; 1, 2, or 3-track encoding; and JIS encoding.

Q: What encoding protocols are supported by the smart card encoder?

A: The encoder supports ISO 14443 A/B and ISO 7816 protocols.

Q: Is the CR805 printer field upgradable?

A: The CR805 printer is field upgradable for magnetic stripe encoding, smart card options, and the Card Lamination Module* by an Entrust authorized service representative or a trained Entrust Channel Partner. See special notes in upgrade section on what to order.

Q: Can the CD800 card printer with CLM be upgraded to use the C l rpsqr B_r_a_p̃ CR805 card printer with that existing CLM?

A: The Artista CR805 printer can be placed onto a CLM that was previously being used with the CD800 printer. It is important to note the metal rollers in the CLM will need to be replaced by rubber rollers using the roller upgrade kit.

Q: Is smart card encoding field upgradable for the CR805 Card Printer?

A: Yes, smart card encoding for the printer can be upgraded in the field by an Entrust authorized service representative or a trained Entrust Channel Partner. See special notes in upgrade section on what to order.

Q: How many cards can the output hopper hold?

A: The standard output hopper holds up to 25 cards, but an optional up to 125-card output hopper may be purchased.

Q: What communication interfaces will the CR805 card printer support?

A: USB and Ethernet connectivity are supported.

Q: What driver does the Entrust Datacard CR805 card printer use?

A: The Entrust Datacard CR805 printer uses XPS Driver 7.0.

Q: Is there a reject bin in the printer?

A: Yes – it holds up to 6 cards.

Q: How does the card debower work and can it be adjusted?

A: The card debower holds the card in a position to reduce the bow in the card. You can turn the debower off via settings in the printer manager.

Q: Is the hardware lock option field upgradable?

A: No, this must be purchased at time of printer order.

Q: What operating systems support the Entrust Datacard CR805 card printer?

A: The Entrust Datacard CR805 printer is supported by the following Microsoft operating systems: Windows 11 (32/64 bit), Windows 10 (32/64 bit), Windows 8.1 (32/64 bit), Windows 7 (32/64 bit), Windows 2008 R2 Server (64 bit), Windows 2012 R2 Server (64 bit).

Q: Where is the diagnostic program located?

A: The diagnostic tools are now built into the Entrust Datacard CR805 cardprinter and are accessible through the browser-based Print Manager.

Q: Are two different printheads needed to support color printing and monochrome printing?

A: No, a single printhead produces excellent print results for both color and monochrome printed cards.

Q: What are the power requirements?

A: The Entrust Datacard CR805 card printer requires 100-240V, 50/60 Hz.

Supplies

Q: Why are there two options for retransfer film? How do I know which one to use?

A: Two different options have been offered so that the yield can be matched with the color ribbon to maximize efficiency. Refer to the table in the Supplies section of this document to determine which option should be ordered.

Q: Why aren't the ribbons the normal YMCK that I'm used to?

A: The new CR805 card printer uses pigment ink instead of dye. That means the ribbon panels are in a different order and use slightly different naming conventions. Refer to the table in the Supplies section of this document to determine which option should be ordered.

Q: Can I use the same supplies on the laminator if I replace the CD800 card printer with the Entrust Datacard CR805 card printer?

A: No, the CD800 card printer is a direct-to-card printer, which uses different patch adhesion technology than the Entrust Datacard CR805 card printer. So, while the same laminator may be used, the supplies will have to be changed to patch laminates for the Entrust Datacard CR805 printer and CLM.

Software

Q: What Entrust software supports the Entrust Datacard CR805 printer?

A: Entrust Instant ID Software is tested to work with the Entrust Datacard CR805 Card Printer. It will also work with Entrust Issuance Device Management Software.

Q: Can the printer be used with third-party software?

A: Yes, through use of the driver, third-party software can print cards using the Entrust Datacard CR805 card printer.

Service & Support

Q: What is the warranty for the Entrust Datacard CR805 card printer?

A: The CR805 card printer has a 36-month warranty for both the printer and printhead. Complete warranty details can be found [here](#).

Q: What service and support is available for the Entrust Datacard CR805 card printer?

A: Please find this information on the [system support page](#) .

Ordering

Q: How do I order an Entrust Datacard CR805 card printer and CLM?

A: Please contact your regional customer service representative, sales manager, or sales support representative.

Q: How do I order an Entrust Datacard CR805 card printer demo package?

A: Please contact your regional customer service representative, sales manager, or sales support representative.

Additional Information

Please contact your sales manager or sales support representative for more information on the Entrust Datacard CR805 printer.

Supplies cartridges are color-coded to help ensure there is no mix-up of supplies. The color ribbons have a blue core, and the color cartridge they are loaded onto is blue. The retransfer film has a yellow core, and the cartridge is yellow. All supplies click in place, so the rolls of color film and retransfer film won't fall off the cartridge. To release them, simply push down the appropriate gray or colored tab to release. The supplies go into the respective cartridge one way only.



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