

# Entrust Datacard DS4-ES1K Instant Issuance System with Embosser

## HIGHLIGHTS

### The Next Generation of Self-Service Experience for Your Kiosk

Entrust® Datacard® (formerly Sigma) Instant Issuance Systems are specifically designed for today's cloud environments and give you the ability to easily issue the most secure financial cards in the world.

- Simple: From unboxing to issuing cards to managing your printer, we made sure Datacard was the most user-friendly card issuance solution in the world
- Secure: Our industry-leading issuance security architecture will keep your cards and your customers' data safe and secure at each step of the issuance process
- Smart: Forward-thinking technology and scalability allow you to expand your card issuance program as your needs evolve



Multi-hopper  
with embosser

## KEY FEATURES & BENEFITS

### The World's Most User-Friendly Financial Card Printer for Kiosk

- Intuitive printer dashboard lets you see printer status, order supplies, check cleaning status, update firmware, or contact help – all from your mobile device
- Seamless self-service lets you access how-to videos and other helpful resources by simply scanning a QR code on the LCD display
- Pre-loaded ribbon cassettes make switching ribbons easy
- Optional multi-hopper enables multiple card designs from a single printer
- Removable card cassettes make securing cardstock overnight a breeze
- System powers on automatically when it sees power to the kiosk
- Add card retraction feature when user fails to grab card from kiosk
- Rear pick, ability to accept cards from the user to add personalization

## Unmatched Security

- Dual-control access with security locks protects cardstock, supplies, and rejected cards, meeting Visa and Mastercard security requirements
- Cardstock is easily removable for secure overnight storage
- Secure boot protects system from malware or virus on boot-up
- Trusted Platform Module (TPM) manages the printer's own TLS/SSL certificates and keys
- Connection and data sent between Entrust Adaptive Issuance™ software and printer is encrypted
- Customer data is encrypted and is not stored in the printer after printing is complete

## Flexible, Scalable, and Easily Integrated into Your IT Environment

- Issuance capabilities include:
  - Full-color or monochrome direct to-card printing
  - Magnetic stripe encoding
  - Contact or contactless smart card encoding
- Choose on-premises or cloud-hosted deployment
- Embossed text with metallic tipping foil for an elegant look
- Add multi-hopper for multiple pre-designed card feeding
- A full suite of services is available to help ensure your instant issuance program runs smoothly at every one of your branches



## TECHNICAL SPECIFICATIONS

| Standard Features & Supplies    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Print technology                | Dye sublimation / resin thermal transfer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Print capabilities              | Single- or dual-sided edge-to-edge, full-color, and monochrome printing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Print resolution                | <ul style="list-style-type: none"> <li>Standard mode: 300 dots per inch (dpi) (300 X 600, 300 X 1200) standard text, bar code, and graphics printing</li> <li>TrueMatch™ printing technology. Ability to conform to ICC color workflow</li> </ul>                                                                                                                                                                                                                                                                                                                      |
| Print speed                     | <ul style="list-style-type: none"> <li>Single-sided color ribbon (YMCKT): up to 250 cards per hour (cph)</li> <li>Double-sided color ribbon (YMCKT-KT): up to 180 cards per hour (cph)</li> <li>Double-sided monochrome ribbon (black HQ): up to 500 cards per hour (cph)</li> <li>60 seconds to encode mag stripe, indent, emboss, and top the card</li> <li>64 seconds to print monochrome graphics, encode mag stripe, indent, emboss, and top the card</li> <li>78 seconds to print color graphics, encode mag stripe, indent, emboss, and top the card</li> </ul> |
| Card capacity                   | Input hopper: 125 cards (based on 0.03-in. card thickness)<br>Input multi hopper: 750 cards (Optional)<br>Capacity of Reject/Retraction card bin options: 25 cards in output and 10 cards reject bin (Default)<br>Front exception card slot                                                                                                                                                                                                                                                                                                                            |
| Card sizes                      | Thickness: 0.030 inches (0.762mm)<br>Dimension: ID-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Embossing/Indenting             | <ul style="list-style-type: none"> <li>75-character embossing/indenting wheel, financial format per ID-1 ISO 7811-3</li> <li>Single- or dual-sided</li> <li>Mastercard security characters   Helvetica® characters   OCR-A1, OCR-B1</li> </ul>                                                                                                                                                                                                                                                                                                                         |
| Operating environment           | Temperature: 60°F to 95°F (15°C to 35°C)<br>Humidity: 20%-80% RH – non condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Magnetic stripe encoding        | ISO 7811 three-track support (high- and low-coercivity)<br>JIS Type II single-track option                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Smart card personalization      | <ul style="list-style-type: none"> <li>Contact and contactless smart card encoding for ISO 14443 A/B, ISO 15693, MIFARE®, MIFARE® DESFire® EV1/EV2</li> <li>Single-wire connectivity   Supports production of EMV® level-1 compliant card</li> </ul>                                                                                                                                                                                                                                                                                                                   |
| Security features               | <ul style="list-style-type: none"> <li>Software-activated lock to secure cardstock, supplies, and reject card hopper</li> <li>TLS/SSL encryption, supports AES-256</li> <li>Bolt-down ready</li> <li>Secure cable lock (sold separately)</li> <li>Concealed output hopper</li> <li>Password-protected cabinet</li> <li>Non-resettable card counter for auditing</li> </ul>                                                                                                                                                                                             |
| LCD display languages           | English, Spanish, German, Italian, and Japanese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Physical dimensions             | <ul style="list-style-type: none"> <li>Printer: L 17.4 in x W 8.9 in x H 9.0 in / 44.2 cm x 22.6 cm x 22.9 cm</li> <li>Printer with optional multi-hopper: 23 in x 13.4 in x 16.2 in (58.4 cm x 34 cm x 41.1 cm)</li> <li>Bottom module (indenting, embossing, topping, card output): 15 in. x 27.5 in. x 10.5 in. (38.1 cm x 69.9 cm x 26.7 cm)</li> <li>Height of Card output: Eject from Printer 14.19 inches (36 cm)<br/>Option Eject from Embosser 4.99 inches (12.7 cm)</li> </ul>                                                                               |
| Weight                          | Printer: 12.1 lbs (5.49 kg)<br>Printer with multi-hopper: 30.9 lbs (14.02 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Connectivity                    | Ethernet                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Driver operating system support | <ul style="list-style-type: none"> <li>Windows 10 version 1909 – 64-bit – enterprise, home, professional</li> <li>Windows 10 – 32 bit – professional or enterprise</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                          |
| Warranties                      | 36 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Optional Features & Supplies

|                                        |                                                                                                            |              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------|--------------|
| Multi-hopper                           | Six-compartment hopper, 125-card capacity each (750 cards total)                                           |              |
| Prefilled Panel Print Ribbon Cassettes | YMCKT                                                                                                      | 500 images   |
|                                        | YMCKT-KT                                                                                                   | 350 images   |
|                                        | KTT                                                                                                        | 750 images   |
|                                        | ST-KT                                                                                                      | 500 images   |
|                                        | GT-KT                                                                                                      | 500 images   |
| Panel Print Ribbon Kits                | YMCKT                                                                                                      | 500 images   |
|                                        | YMCKT-KT                                                                                                   | 350 images   |
|                                        | KT                                                                                                         | 1,000 images |
|                                        | KTT                                                                                                        | 750 images   |
| Monochrome Print Ribbon Kits           | Black, white, blue, red, green, silver matte, gold matte, silver metallic, and gold metallic: 1,500 images |              |
| Topping Foil Kits                      | Silver metallic, gold metallic, copper metallic, black, white, and blue: 500 images                        |              |
| Indent Ribbons                         | Black and white: yield varies based on usage                                                               |              |

Color ribbon guide: Y=Yellow, M=Magenta, C=Cyan, K=Black, T=Topcoat, S=Silver matte, G=Gold matte

Supply yields: Panel ribbon yields stated are typically the maximum number of panel sets per roll. Monochrome ribbon yields stated may be up to 3 times greater due to Entrust ribbon saver features. Topping foil yield is typically the maximum achievable per roll. Indent ribbon yield varies depending on character size and number of characters printed per card.

