

## DATASHEET

# Sigma DS4K Instant Issuance System

### HIGHLIGHTS

## The Most Advanced Companion for Your Self-Service Instant Issuance Journey with Any Kiosk

Entrust Sigma Financial Card Printers 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 Sigma 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 each step of the issuance process
- **Smart:** Forward-thinking technology and scalability allow you to expand your card issuance program as your needs evolve



### KEY FEATURES & BENEFITS

## Experience the Sigma Excellence In Kiosks

- 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 card stock overnight a breeze
- Auto power-on feature powers up the system when it sees power to the kiosk
- Card retraction feature is invoked when user fails to grab card from kiosk
- Rear pick, ability to accept cards from the user to add personalization

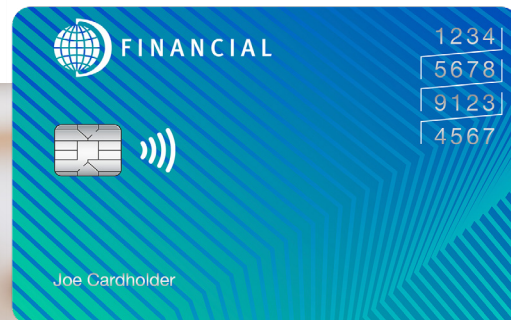


## Unmatched Security

- Dual-control access with security locks protects card stock, supplies, and rejected cards, meeting Visa and Mastercard security requirements
- Card stock 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
- Network communication in accordance with NIST SP 800-52 Rev. 2 recommendations when using TLS 1.2 or 1.3 with strong cryptographic protocols
- Zero Trust network support using RADIUS-enabled IEEE 802.1x password or certificate-based authentication

## 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
- Easily expand your issuance program as your needs change:
  - Add multi-hopper for multiple pre-designed card feeding
  - Add embosser unit with metallic tipping foil to produce elegant-looking cards
- 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	Single-sided color ribbon (YMCKT): up to 250 cards per hour (cph) Double-sided color ribbon (YMCKT-KT): up to 180 cards per hour (cph) Double-sided monochrome ribbon (black HQ): up to 500 cards per hour (cph)
Card capacity	Input hopper: 125 cards (based on 0.03in. card thickness) Input multi hopper: 750 cards (Optional) Capacity of Reject/Retraction card bin options: 25 in output and 10 in reject bin (Default) Front exception card slot
Card sizes	Thickness: 0.030 inches (0.762mm) Dimension: ID-1
Operating environment	Temperature: 60°F to 95°F (15°C to 35°C) Humidity: 20-80% RH – non condensing
Magnetic stripe encoding	ISO 7811 three-track support (high- and low-coercivity) JIS Type II single-track option
Smart card encoding	Single wire connectivity; supports production of EMV level-1 compliant cards <ul style="list-style-type: none"> <li>Contact smart card encoding: ISO 7816 T=0 (T=1), Class A 5V (3V and 1.8V)</li> <li>Contactless smart card encoding: ISO 14443 – A &amp; B, ISO 15693, MiFare Series, DESFire Series EV1/EV2, HID iCLASS Series, HID Prox (125 KHZ)</li> </ul>
Security features	<ul style="list-style-type: none"> <li>Software-activated lock to secure card stock, 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>Non-resettable card counter for auditing</li> </ul>
LCD display languages	English, French, German, Italian, Portuguese, Spanish, Japanese, Chinese, Korean, Czech, and Arabic
Physical dimensions	Printer: L 17.4 in x W 8.9 in x H 9.0 in / 44.2 cm x 21.5 cm x 22.9 cm 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) Height of card output: 3.769 in (9.573 cm)
Weight	Printer: 12.1 lbs (5.49 kg) Printer with multi-hopper: 30.9 lbs (14.02 kg)
Connectivity	Ethernet
Operating systems	<ul style="list-style-type: none"> <li>Windows 11</li> <li>Windows 10, 32- and 64-bit</li> <li>Windows Server 2022</li> <li>Windows Server 2019</li> <li>Linux Ubuntu 20.04 LTS</li> <li>Linux Kylin 10</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
	WTT	650 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
	ST-KT	500 images
	WTT	650 image
Monochrome Print Ribbon Kits	Black, white, blue, red, green, silver matte, gold matte, silver metallic, and gold metallic: 2,500 images	

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

Supply yields: Panel ribbon yields stated are typically the maximum number of panel sets per roll. Monochrome ribbon yields stated as average printing of 2,500 images simplex. Actual yields may vary. 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.



Learn more about the MX Series at [entrust.com](https://www.entrust.com)

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