

## DATASHEET

# Sigma DS4 Financial Card Printer

### HIGHLIGHTS

## Sigma: The Next Generation of Instant Card Issuance Comprehensive Capabilities

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.

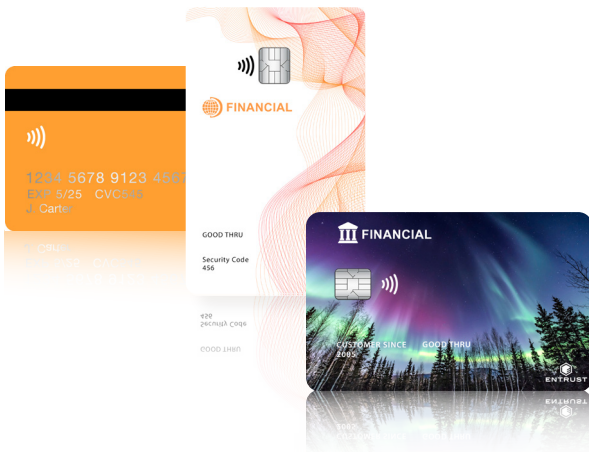
- **Simple:** From unboxing to issuing cards to managing your printer, we made sure Sigma was the most user-friendly card issuance solution in the world
- **Secure:** Our industry-leading issuance security architecture will keep your cards and your customers' data safe and secure each step of the issuance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

### KEY FEATURES & BENEFITS

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

- 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
- Variable LED light ring lets you incorporate brand colors or other customization into your ambient environment
- 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

Single-hopper



## 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 cryptographically authenticates firmware, preventing printer operation if unauthorized modifications are detected
- Trusted Platform Module (TPM) secures a factory-installed Entrust-backed TLS certificate
- 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
- Secure Ribbon Scramble allows users to specify the card personalization fields that are to be securely printed, making defined personal data difficult to read from the used ribbon supply
- These security features require a properly configured printer with D4.3.2 or newer firmware

## 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
- Expand your issuance program as your needs change:
  - Add multi-hopper for multiple pre-designed card feeding
  - Add Light Curing Module to print cards that are built to last with double the card durability
  - Add Rear Indent Module to enable CVV or CVC to be printed without an embosser
- 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	Standard mode: 300 dots per inch (dpi) (optional 300 X 600, 300 X 1200 mono) supporting standard text, bar code, and graphics printing Datacard® TrueMatch™ printing technology. Ability to conform to ICC color workflow.
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): up to 500 cards per hour (cph)
Card capacity	Input hopper: 125 cards (based on 0.03in. card thickness) Output hopper: 25 cards Reject holding tray: 10 cards 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	<ul style="list-style-type: none"> <li>• Single wire connectivity; supports production of EMV level-1 compliant cards</li> <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 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>• Non-resettable card counter for auditing</li> </ul>
Secure ribbon scramble	<ul style="list-style-type: none"> <li>• Instantly encrypts sensitive information in the ribbon, eliminating the need for a shredding process and the risk of information leakage</li> <li>• Software needed: IFI On-prem 6.10 or higher and IFIaaS 8.3 or higher</li> <li>• Available for UV monochrome ribbons (excluding cassette types) and standard black and white ribbons</li> <li>• Only recommended for personalization fields; not recommended for non-personalization information</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 22.6 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)
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)														
WiFi	Standards: 802.11g/n/ac Frequencies: 2.4GHz & 5GHz Authentication modes: WPA2 Personal, WPA2 Enterprise														
Color ribbons	<table border="0"> <tr> <td>YMCKT</td> <td>500 images</td> </tr> <tr> <td>YMCKT-KT</td> <td>350 images</td> </tr> <tr> <td>KTT</td> <td>750 images</td> </tr> <tr> <td>ST-KT</td> <td>500 images</td> </tr> <tr> <td>GT-KT</td> <td>500 images</td> </tr> <tr> <td>KT</td> <td>1,000 images</td> </tr> <tr> <td>WTT</td> <td>650 images</td> </tr> </table>	YMCKT	500 images	YMCKT-KT	350 images	KTT	750 images	ST-KT	500 images	GT-KT	500 images	KT	1,000 images	WTT	650 images
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Monochrome ribbons	Black, 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.

Multi-hopper



Light Curing Module



Sigma DS4-ES1



## Maximum Control of Your Keys with Hold Your Own Key (HYOK)

Regulated industries typically have their options prescribed by security and data handling policies, government mandates (data sovereignty considerations for example), and the overall security posture of the organization. Data sovereignty has recently become a hot potato in the European Union, where the outcome of the Schrems II legal case has led to over 5,000 EU organizations having to think carefully about where their cryptographic keys and encrypted data reside.

In response, cloud service provider AWS offer their Key Management Service External Key Store or AWS KMS XKS. It empowers organizations to own, hold, and manage their cryptographic keys on premises or in a cloud-based solution under their control, completely outside of the AWS ecosystem. nShield HSMs integrate seamlessly with AWS KMS XKS. In Microsoft Azure Information Protection (AIP) environments, nShield HSMs support Double Key Encryption designed to help enterprises protect their most sensitive content in Microsoft 365.

## Streamlined Operations Using Remote Monitoring and Management

nShield Monitor and nShield Remote Administration, available for nShield network-attached and PCIe HSMs, help you cut operational costs while staying informed and in command 24x7 of your HSM estates.

Entrust's remote monitoring and management offer the following benefits:

- Optimize HSM performance, infrastructure planning, and uptime using nShield Monitor to inform your staff about load trends, usage statistics, tamper events, warnings, and alerts
- Reduce travel costs and save time by managing HSMs through nShield Remote Administration's powerful and secure interface

## Uniquely powerful card-to-envelope solution for highly differentiated flat cards

Discover our full suite full suite of flat card personalization technologies and card delivery systems.

[Learn More](#)

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

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