



DATA SHEET

Sigma DS4 Financial Card Printer

HIGHLIGHTS

Sigma: The next generation of instant card issuance

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

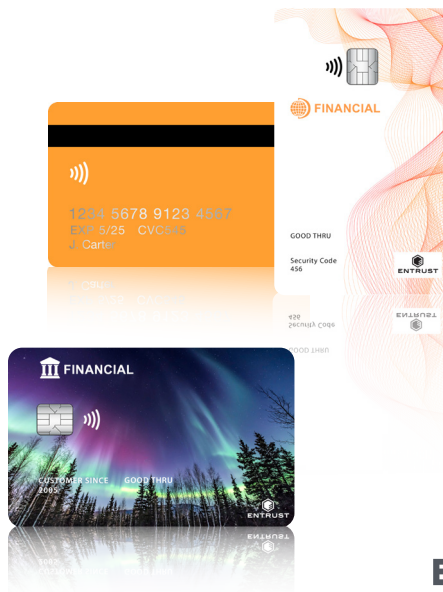


Single-hopper

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 card stock overnight a breeze



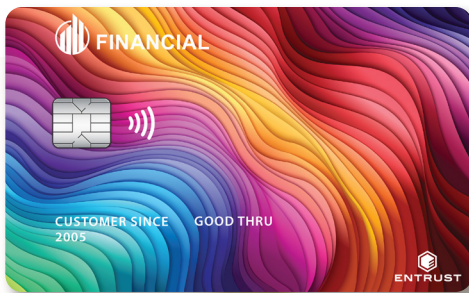
ENTRUST
SECURING A WORLD IN MOTION

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 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

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 embosser unit with metallic tipping foil to produce elegant-looking cards
 - 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 - TrueMatch™ color 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 0.03-in. card thickness) Output hopper: 25 cards Reject holding tray: 10 cards Front exception card slot
Card sizes	Thickness: 0.030 in (0.762 mm) Dimension: ID-1 Material*: PVC, PETG *For other card types, test before using
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 - Contact smart card encoding: ISO 7816 T=0 (T=1), Class A 5V (3V and 1.8V) - Contactless smart card encoding: ISO 14443 – A & B, ISO 15693, MiFare Series, DESFire Series EV1/EV2, HID iCLASS Series, HID Prox (125 KHZ) *Compatibility with specific features of new card technologies should always be confirmed
Security features	- Software-activated lock to secure card stock, supplies, and reject card hopper - TLS/SSL encryption, supports AES-256 - Bolt-down ready - Secure cable lock (sold separately) - Concealed output hopper - Non-resettable card counter for auditing
Secure Ribbon Scramble	- Instantly encrypts sensitive information in the ribbon, eliminating the need for a shredding process and the risk of information leakage - Software needed: IFI On-prem 6.10 or higher and IFlaaS 8.3 or higher - Available for UV monochrome ribbons (excluding cassette types) and standard black and white ribbons - Only recommended for personalization fields; not recommended for non-personalization information
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)
Weight	Printer: 12.1 lbs (5.49 kg) Printer with multi-hopper: 30.9 lbs (14.02 kg)
Connectivity	Ethernet

Standard Features & Supplies (continued)

Operating systems	• Windows 11 • Windows 10, 32 and 64-bit	• Windows Server 2022 • Windows Server 2019	• Linux Ubuntu 20.04 LTS • Linux Kylin 10
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	
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 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



Sigma DS4 with
Light Curing Module



Sigma DS4-ES1