Sigma DS4-ES1 Instant Issuance System with Embosser

HIGHLIGHTS

Sigma: The next generation of instant card issuance

Entrust 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 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 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

Single-hopper with embosser

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

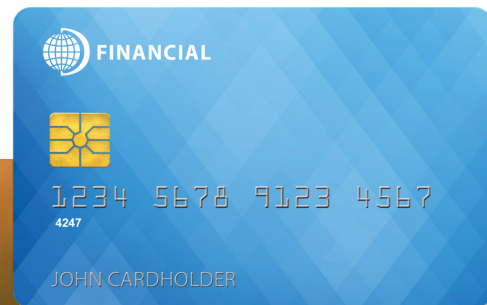**Learn more about the Sigma DS4-ES1 printer at entrust.com**

Sigma DS4-ES1 Instant Issuance System

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

FINANCIAL

1234 5678 9123 4567

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JOHN CARDHOLDER

Sigma DS4-ES1 Instant Issuance System

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) (300 X 600, 300 X 1200) standard text, bar code, and graphics printing • 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 HQ): up to 500 cards per hour (cph) • 60 seconds to encode mag stripe, indent, emboss, and top the card • 64 seconds to print monochrome graphics, encode mag stripe, indent, emboss, and top the card • 78 seconds to print color graphics, encode mag stripe, indent, emboss, and top the card
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: 0.010 inches to 0.040 inches (0.25mm - 1.016mm) Dimension: ID-1, CR-79
Embossing/Indenting	• 75-character embossing/indenting wheel, financial format per ID-1 ISO 7811-3 • Single- or dual-sided • Mastercard security characters	Helvetica® characters	OCR-A1, OCR-B1
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 personalization	• Contact and contactless smart card encoding for ISO 14443 A/B, ISO 15693, MIFARE®, MIFARE® DESFire® EV1/EV2 • Single-wire connectivity	Supports production of EMV® level-1 compliant card
Security features	• Software-activated lock to secure cardstock, supplies, and reject card hopper • TLS/SSL encryption, supports AES-256 • Bolt-down ready • Secure cable lock (sold separately) • Concealed output hopper • Password-protected cabinet • Non-resettable card counter for auditing
Secure Ribbon Scramble	• Printing with 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 • Software needed: IFI On-prem 6.10 or higher and IFIaaS 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, Spanish, German, Italian, and Japanese
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) • 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 36.8 cm)
Weight	Printer: 12.1 lbs (5.49 kg) Printer with multi-hopper: 30.9 lbs (14.02 kg)
Connectivity	Ethernet
Driver operating system support	• Windows 11 • Windows 10 version 1909 – 64-bit – enterprise, home, professional • Windows 10 – 32 bit – professional or enterprise
Warranties	36 months

Optional Features & Supplies

Multi-hopper	Six-compartment hopper, 125-card capacity each (750 cards total)	
Color ribbons	YMCKT	500 images
	YMCKT-KT	350 images
	KTT	750 images
	KT	1,000 images
	WTT	650 images
	ST-KT	500 images
	GT-KT	500 images
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 with embosser

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