Entrust Sigma DS4 Instant Issuance System with Light Curing Module

HIGHLIGHTS

Next-generation financial flat card printing with Durable Graphics technology

Deliver the most capable payment card instantly with the new Light Curing Module for the Sigma DS4 Instant Issuance system. Building on the foundation of Sigma DS4's secure, simple, and smart financial issuance platform, the Light Curing Module introduces a world of possibilities when it comes to flat card personalization with its Durable Graphics printing technology.

Entrust's Light Curing Module technology has been used to personalize tens of millions of the most modern payment cards in circulation today. Now, instant issuance providers have the opportunity to leverage the unmatched durability and brilliance of Durable Graphics using the Light Curing Module with their new (or existing) fleet of Sigma DS4 systems.
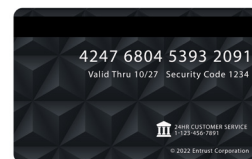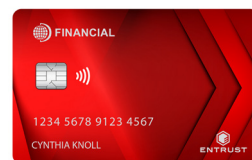
The Light Curing Module seamlessly integrates into existing Sigma DS4 systems and applies a unique, UV-curable, thermal transfer, monochrome graphics ribbon to pre-printed cardstock using 300x600 dpi printing technology. This bright, bold, and durable personalization option stands out in its clarity and toughness compared to other direct-to-card flat card personalization options available in the market.

Light Curing Module   +   **Sigma DS4**   =   **Durable Graphics Printing**

Learn more about the Sigma DS4 printer with Light Curing Module at entrust.com

Sigma DS4 Instant Issuance System with Light Curing Module

The dynamic Light Curing Module with Durable Graphics solution enables printing bold ink personalization (name, PAN, CVV) vertically or horizontally, and on the front or back of the card. This enables your financial institution to seamlessly evolve your card design as new formats become the norm.

The Light Curing Module delivers an unprecedented shift in the way the world instantly issues payment cards.

KEY FEATURES & BENEFITS

Sigma DS4 + Light Curing Module paired with Light Curing Module enhancement:

- Bright, bold white text printing (plus 3 other color options)
- Extended durability on card personalization (compared to other flat card perso options)
- Dynamic and flexible card designs (front, back; horizontal, vertical)

Integrates seamlessly with 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
- 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

Learn more about the Sigma DS4 printer with Light Curing Module at entrust.com

TECHNICAL SPECIFICATIONS

Standard Features & Supplies

Print technology	Dye sublimation / resin thermal transfer
Print capabilities	Single- or dual-sided near edge-to-edge, full-color, standard monochrome, and UV-curable monochrome printing
Print resolution	• Standard mode with Light Curing Module (LCM): 300 x 600, 300 x 1200 • 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): up to 500 cards per hour (cph) • 78 seconds to print color graphics and encode mag stripe • 1 minute if using LCM
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: 0.027 - 0.033 inches for LCM
Card materials	Card surface material and surface roughness can influence the print quality and durability of any thermal graphics printing. • For best results with durable graphics printing, use glossy PVC cards or glossy cards with PVC overlaminate • PVC cards or cards with PVC overlaminate having average surface roughness (Ra) of 20 micro-inches (0.5 micron) or less, are also found to be suitable for use • Other card types, such as PETG and varnished cards or cards with Ra greater than 20 micro-inches (0.5 micron) should be tested by the users for quality and durability before making their final selection
LCM (Light Curing Module)	Recommended for personalization (text). Good print = 5 point font; legible print = 4 point font.
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 fields that are to be securely printed, making defined personal data difficult to read from the used ribbon supply • Software needed: IFI Software 6.10 or 8.2.6 • Available for all UV monochrome ribbons and standard (ISEGA) black and white non-UV ribbons • Only recommended for personalization fields; not recommended for non-personalization information
LCD display languages	English, Spanish, German, Italian, and Japanese

Physical dimensions	Sigma DS4 + Light Curing Module: L 26.15 in x W 8.9 in x H 9.6 in
	• Sigma DS4 Multi-hopper + Light Curing Module:
	  L 26.15 in x W 13.4 in x H 16.2 in
	• Sigma DS4-ES1 + Light Curing Module: L 35.5 in x W 14 in x H 19.75 in
	• Sigma DS4-ES1 Multi-hopper + Light Curing Module:
	  L 35.5 in x W 14 in x H 27 in

Weight	Printer: 12.1 lbs Printer with LCM: 22.1 lbs Printer with LCM and Multi-Hopper: 40.9 lbs
Connectivity	Ethernet
Driver operating system support	Supported by Instant Financial Issuance Software 6.7 (On-prem) and 8.2 (as a Service)
Warranties	36 months

Optional Features & Supplies for the DS4 card printer with Light Curing Module

UV-curable monochrome ribbon kits and prefilled ribbon cassettes	• Black, white, silver metallic, and gold metallic • 2,200 images for simplex printing and 1,500 for duplex printing. Actual yield may vary depending on printed image size.

Optional Features & Supplies when printing with DS4 card printer

Multi-hopper	Six-compartment hopper, 125-card capacity each (750 cards total)	
Color ribbons	YMCKT	500 images
	YMCKT-KT	350 images
	KTT	750 images
	ST-KT	500 images
	GT-KT	500 images
	WTT	650 images
Monochrome ribbons	White, black, blue, red, green, silver matte, gold matte, silver metallic, and gold metallic: 1,500 images	

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

Learn more at
entrust.com

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