DATA SHEET

Sigma DS3

Direct-to-Card Printer

HIGHLIGHTS

Sigma: The next generation of direct-to-card printing

Entrust Sigma ID Card Printers are specifically designed for today's cloud environments and give you the ability to easily issue secure identities.

- **Simple:** From unboxing to issuing ID cards and mobile flashpasses to managing your printer, we made sure Sigma was the most user-friendly ID 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 ID card program as your needs evolve

KEY FEATURES & BENEFITS

The world's most user-friendly ID 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
- Optional pre-loaded ribbon cassettes make switching ribbons easy
- Innovative patented printhead protector feature shields the printhead during ribbon replacement or printer servicing, which helps to extend the printhead life. Enables you to easily fix the issue at hand without having to worry about damaging the printhead.

ENTRUST

SECURING A WORLD IN MOTION

Unmatched security

- UV printing and other security features added to the cards protect from tampering and counterfeiting
- 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
- Optional locks protect card stock and supplies

Flexibility and scalability built for the future

- Issuance capabilities include physical cards and digital mobile flashpass
- Choose on-premises or cloud-hosted deployment
- Expand your ID program as your needs change by adding multi-hopper, smart card capabilities, color tactile printing, and more
- Print anytime, anywhere with your mobile device (iOS, Android, Windows)

TECHNICAL SPECIFICATIONS

Standard Features & Supplies	
Print technology	Dye-sublimation / resin thermal transfer
Print capabilities	Single- or dual-sided, rewritable technology
Print resolution	300 dots per inch (dpi) (300 x 600, 300 x 1200)
Print speed	Single-sided color ribbon: up to 250 cards per hour (cph) Double-sided color ribbon: up to 180 cards per hour (cph)
Card capacity	Input hopper: 125 cards Output hopper: 25 cards
Lamination and Tactile Speed	Front side YMCK ribbon with front side lamination: Up to 210 cards per hour Front side YMCK-K ribbon with front side lamination and back side K: Up to 185 cards per hour Front side YMCK ribbon with lamination and tactile: Up to 195 cards per hour Dual-sided YMCK-K ribbon with lamination and tactile: Up to 160 cards per hour Tactile Impression Module speed up to 150 cards per hour (cph)
Card sizes	Thickness: 0.010 inches to 0.040 inches (0.25mm - 1.016mm) Dimension: ID-1 (CR-79, CR-80) Reject hopper: 10 cards 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
Physical dimensions	L 17.4 in x W 8.3 in x H 9 in / 44.2 cm x 22.1 cm x 22.9 cm
Weight	12.1 lbs (5.49 kg); varies with options
Connectivity	USB and Ethernet
Warranty	36 months

Sigma DS3 with TIM

Sigma DS3 with CLM

Optional Features & Supplies	
Magnetic stripe encoding	ISO 7811 three-track support (high- and low-coercivity) JIS Type II single-track option
Multi-hopper	Six compartment multi-hopper (six 125-card hoppers, 750-card total capacity)
WiFi	Standards: 802.11g/n/ac Frequencies: 2.4GHz & 5GHz Authentication modes: WPA2 Personal, WPA2 Enterprise
Smart card encoding*	Single wire or loosely coupled: • 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, MIFARE DESFire EV1/EV2, HID Prox, iClass, iClass SE, iClass Seos, Felica
Color ribbons**	YMCKT 250/500 images YMCKT 650 images YMCKT-KT 350 images YMCKT-KT 435 images KT 1,000 images KTT 750 Images WTT 650 images ST-KT 500 images YMCKF-KT 300 images YMCKL-KT 300 images
Monochrome ribbons	Black, white, blue, red, green, scratch-off, silver matte, gold matte, silver metallic, and gold metallic: 2,500 average images
Overlays and films	Clear or holo topcoat: 1,000 images DuraGard® clear or holo laminate (0.5, 0.6, or 1 mil): 350 images DuraGard® clear or holo laminate (1.0 mil): 300 images Clear DuraShield™ overlay***: 500 images
Tactile foil cassettes	Silver metallic, gold metallic, copper metallic, and black gloss: 1,000 images White gloss: 750 images

*Compatibility with specific features of new card technologies should always be confirmed.

**Color ribbon guide: Y=Yellow, M=Magenta, C=Cyan, K=Black, T=Topcoat, F=UV fluorescent, L=Luster, y=1/2 panel Yellow, m=1/2 panel Magenta, c=1/2 panel Cyan, S=Silver matte, G=Gold matte, W=White.

Panel print ribbon yields stated are typically the maximum number of panel sets per roll.

Monochrome print ribbon yields stated at 2,500 is the estimated image yield per roll for industry average personalization of 1.95in (49mm) print length.

Actual yields may vary based upon print length and other factors."

***For use in conjunction with laminator module topcoats or overlays.

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