

DATASHEET

Sigma DS1

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 help protect your cards and your customers' data during 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.



Unmatched Security

- 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
- Luster printing and other security features added to cards protect from tampering and counterfeiting



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 smart card capabilities, WiFi connectivity, and more
- Print anytime, anywhere with your mobile device (iOS, Android, Windows)



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TECHNICAL SPECIFICATIONS

Standard Features & Supplies

Print technology	Dye sublimation
Print capabilities	Single-sided
Print resolution	300 dots per inch (dpi) (300 X 600, 300 X 1200)
Print speed	Single-sided color ribbon: Up to 175 cards per hour (cph) Monochrome printing: Up to 660 single-sided cards per hour (cph)
Card capacity	Input hopper – 125 cards Output hopper – 25 cards
Card sizes	Thickness: 0.010 inches to 0.040 inches (0.25mm - 1.016mm) Dimension: ID-1 (CR-79, CR-80)
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

Standard Features & Supplies (continued)

Weight	11.3 lbs (5.49 kg)		
Connectivity	USB		
Warranty	36 months		
Web browser support for Instant ID as a Service	Chrome (preferred) Edge/Internet Explorer Safari		
Operating system support for printer driver	Windows 11 Windows 10, 32- and 64-bit	Windows Server 2022 Windows Server 2019	Linux Ubuntu 20.04 LTS Linux Kylin 10

Optional Features & Supplies

Magnetic stripe encoding	ISO 7811 three-track support (high- and low-coercivity) JIS Type II single-track option		
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		
Prefilled print ribbon cassettes	YMCKT	500 images	
	KTT	750 images	
Color ribbons*	YMCKT	250/500 images	
	ymcKT	650 images	
	KT	1,000 images	
	KTT	750 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 images		

*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.

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

Monochrome print ribbon yields stated at 2500 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.