DATASHEET

Entrust Datacard DS3

Direct-to-Card Printer With Card Lamination Module

HIGHLIGHTS

Entrust Datacard: The Next Generation of Direct-to-Card Printing

Entrust® Datacard® (formerly 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 Entrust Datacard 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.

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 authentication
- Optional locks protect card stock and supplies
- Security features added to cards protect from tampering and counterfeiting:
  - UV printing
  - Holographic laminates
  - Luster printing

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)

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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, 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
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-80)
Operating environment	Temperature: 60°F to 95°F (15°C to 35°C) Humidity: 20-80% RH – non condensing
Physical dimensions	L 23.8 in x W 10.6 in x H 20.4 in / 60.4 cm x 27 cm x 51.9 cm
Weight	30 lbs (13.62 kg); varies with options
Connectivity	USB and Ethernet
Warranty	36 months

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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 PLUS, MIFARE® DESFire EV1/EV2/EV3, HID Prox, iClass, iClass SE, iClass Seos, Felica		
Prefilled print ribbon cassettes	YMCKT YMCKT-KT KTT	500 images 350 images 750 images	
Color ribbons**	YMCKT ymcKT YMCKT-KT KT KTT YMCKF-KT YMCKL-KT YMCK & YMCK-KK	250/500 images 650 images 350 images 1,000 images 750 Images 300 images 300 images 500 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: DuraGard® clear or holo laminate (0.5, 0.6, or 1 mil): DuraGard® clear or holo laminate (1.0 mil): Clear DuraShield™ overlay***:	1,000 images 350 images 300 images 500 images	
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

*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.

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

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.

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