

DATASHEET

Entrust Datacard RS4 Instant Issuance

The Entrust Datacard RS4 provides instant issuance of personalized financial cards with over-the-edge retransfer printing and encoding in one secure, streamlined printer.

HIGHLIGHTS

Elevate Cardholder Satisfaction with Cutting-Edge Retransfer Print Technology

Enable your customers to use their new cards immediately with the cutting-edge Entrust® Datacard® RS4 (formerly Artista) system – the latest evolution of our Datacard retransfer card printing technology. Entrust's instant issuance solutions ensure that high-quality, long-lasting cards are available the instant they're needed.

Our advanced retransfer technology allows for:

- On-the-Spot Personalization: Cards can be designed and ready to print in minutes.
- Immediate Impact: High-quality cards can be printed, activated, and ready to use before your customer walks out the doors.

Our innovative system provides the ability to offer personalized products and services tailored to your cardholders' unique needs. With the RS4, you get a comprehensive and adaptable solution that integrates printing and encoding within a single, streamlined system.



RS4 SINGLE-HOPPER



RS4 + MULTI-HOPPER

KEY FEATURES & BENEFITS

A Superior and Vibrant Solution that Encapsulates Your Brand's Essence with Cards that are Visually Striking and Durable

- Our specially designed pigment inks are crafted to create long-lasting, fade-resistant images, and we are excited to launch our latest innovation in primerless ribbons that offer quicker card printing, more cost-effective ribbon options, and enhanced durability.
- The RS4's precision in over-the-edge retransfer color printing ensures each card is a high-quality representation of your brand.
- For added resilience, an optional second layer of inline retransfer film is available to further fortify card durability.

Advanced Solution with Operational Efficiency

- The RS4 streamlines card and inventory management, minimizes storage requirements, and reduces preprinting expenses by using blank card stock to print custom or standard cards on demand.
- The RS4 system's matched supplies are designed to deplete color ribbon and retransfer film rolls at an equal pace, promoting efficient printer management and a smart financial choice for your business.

Discover the RS4 System's Expansive Capabilities Tailored to Your Diverse Requirements

- With the ability to encode magnetic stripe, contact, and contactless EMV cards to ISO standards, the RS4 system stands out with its 600 dots per inch printing.
- This precision, coupled with pigment-based ink, produces vivid, long-lasting colors and designs that resist fading, setting a new standard in card quality.

Security is Paramount

- Introducing Secure K, the feature that encrypts sensitive information for you and your cardholders, ensuring ribbon safety is no longer a concern.
- It offers dual-control access to safeguard card stock, supplies, and rejected cards, aligning with Visa and Mastercard security standards.
- 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.
- Trust in the RS4 system for a secure, versatile, and vibrant card issuance experience.



TECHNICAL SPECIFICATIONS

Standard Features & Supplies		
Print technology	Retransfer pigment ink	
Print resolution	600 dots per inch (DPI) This precision, coupled with pigment-based ink, produces vivid, long-lasting colors and designs that resist fading, setting a new standard in card quality	
Print speed	Single-sided (CMYKR): up to 110 cards per hour Dual-sided (CMYK-Ki): up to 65 cards per hour	
Print Capabilities	One-or two-sided printing Over-the-edge, full-card printing Full-color images	
Color Modes	True Color (ICC) – prints colors of the image as defined in the card design Legacy SR/CR – close match to the CR500 Instant Issuance System Vivid – printer colors with higher saturation and contrast	
Card Capacity	Card thickness: 0.030 inches (0.76mm): ISO ID1/CR-80 Concealed hopper and card reject tray (Optional) Multi-hopper: Six-compartment multi-hopper; six 125-card hoppers; 750-card total capacity	
Magnetic Stripe Encoding	IAT/ISO magnetic stripe encoding JIS magnetic stripe encoding upgrade kit available HiCo/LoCo 1, 2, and 3 track encoding	
EMV Smart Card Encoding	Ethernet and USB Single-wire connectivity Contact/Contactless read/write EMV encoding ISO 7816 T=0 & T=1 ISO 14443 A/B	
Security Features	Device: - Trusted Platform Module - TPM - Secure Boot - Signed Firmware Images Data: - TLS 1.2 and 1.3 (supports AES-256) Network: - IEEE 802.1x network authentication - RADIUS-based authentication - WPA2 enterprise network support Physical: - Secure Ribbon Scramble (optional) - Software-activated lock to secure cardstock, supplies, and reject card hopper - Bolt-down ready - Secure cable lock (sold separately) - Concealed output hopper - Non-resettable card counter for auditing General: - Regular Security Patches	
LCD Display	Displays printer status Access to printer status QR code to support seamless self-service through how-to videos and helpful resource	
WiFi (Optional Features)	Standards: 802.11g/n/ac Frequencies: 2.4GHz & 5GHz Authentication modes: WPA2 Personal, WPA2 Enterprise	
Built-In Card Debowing Feature With User-Friendly Operation	Automatic card feed Quick-change ribbon cartridge assemblies Color-coded supplies	
Warranties	36-month system warranty	

Entrust Datacard RS4 Instant Issuance System

Single Hopper

Physical Dimensions (Depth x Width x Height)	21.6 in x 10.1 in x 15.6 in (54.9 cm x 25.65 cm x 39.62 cm)
Weight	28 lb (12.7 kg); with options will vary

Multi-Hopper

Physical Dimensions (Depth x Width x Height)	25.6 in x 13.4 in x 16.2 in (65.1 cm x 34 cm x 41.1 cm)
Weight	28 lb (12.7 kg); with options will vary
Card Types Accepted	ISO/CR-80 size 3.370 in x 2.125 in (85.6 mm x 53.98 mm) PVC, rPVC, PETG, and rPETG cards are supported. Other card types recommend prior testing"
Operating Environment	60° F to 95° F (15° to 35° C) 20% to 80% non-condensing humidity
Storage Environment	5° F to 131° F (-15° to 55° C) 20% to 80% non-condensing humidity
Electrical Requirements (dual-voltage, autosensing)	100/120 V, 50/60 Hz 220/240 V, 50/60 Hz

Supplies

Color Ribbons	CMYK-Ki: 500 images CMYKR: 1,000 images
Clear Retransfer Film - Two Options:	Gloss: 1,500 images (single-sided), 500 images (double-sided) Satin: 1,500 images (single-sided), 500 images (double-sided)

Note: Two layers of film for front side for financial card level durability

For more supplies information, refer to RS4 Supplies Datasheet.

Software Compatibility

Compatible with Entrust Instant Financial Issuance Software

Optional Configuration

The RS4-ES1 Instant Issuance System, equipped with an advanced Embossing Module, is engineered for excellence with proprietary print ribbons and retransfer materials designed specifically for this model.