



Print Now.
Print More.



New Trusted Identity Begins

Experience next-generation performance with the SMART-81S, the industry's fastest retransfer card printer. Powered by our exclusive Rapid Retransfer Printing (RRP) technology, the SMART-81S goes from power-on to "Fastest First Card Out" in just seconds—eliminating long warm-up times common in older retransfer printers.

Delivering ultra-sharp, high-resolution images with rich, deep colors and true edge-to-edge (full-bleed) coverage, the SMART-81S is ideal for high-security credentials, bank cards, and technology cards that demand premium print quality.

RRP technology from IDP offers power-on and Fastest First Card Out. The SMART-81S produces higher quality, sharper-looking images than traditional card printers. It is the perfect choice for demanding applications that require deep dark colors with infinity-edge (full-bleed) graphics on blank or technology cards.

The input card hopper holds up to 200 cards and physical security features allow you to secure your printer, its supplies, and ejected cards in instant bank card issuance or high-security applications.

Features

- Fastest First Card Out – Industry-leading speed
- High-Capacity Input – 200-card hopper for uninterrupted high-volume printing
- Infinity Edge Printing – Stunning full-bleed image quality with rich, vibrant detail
- Dust-Resistant Design – Smart airflow system reduces defects caused by dust
- Option Banking Security – Designed to meet advanced security and compliance needs
- Durable & Modern – Engineered for performance with a sleek, robust design



Issuance

SMART IDesigner ensures accurate card issuance and data management with your SMART series of printers. This application offers simple design tools to allow the user to create a truly customized card within minutes. SMART IDesigner offers advanced user tools such as database connections, camera and signature scanners, plug-in support, as well as smart card reading and encoding.

- Design and print (Image, Photo, and Text)
- 1D & 2D Barcode printing
- Auto portrait (Auto face detection, adjustment of size & position)
- Printing of sequential numbers
- Card design templates
- Plug-in for supporting external devices (Sign pad, Camera, Scanner)
- Convenient card issuance and data management
- Magnetic stripe (MS), contact & contactless smart card encoding by using a plug-in program

Security

The SMART series printers come with highly effective and tested physical and electronic security features.

- PASSWORD verification with administrator and user authentications
- PC AUTHENTICATION locks the SMART printer to a specific PC to render it useless if stolen
- DATA ENCRYPTION over USB and SSL (secure socket layer) over Ethernet
- PHYSICAL LOCKS are standard on the SMART-70 and an optional feature on the SMART-51 Series
- Ethernet - SNMPv3

Networking

The SMART series offers "single-wire" printing and encoding.

- The SMART Ethernet module can not only print over your network, but can also be configured to encode a magnetic stripe, contact IC chips, and contactless smart cards over your network
- The SMART Ethernet module can be configured to accept "open card protocol" print commands for direct printing without a driver

Printing

Print Type	Dye-Sublimation / Resin Thermal Retransfer
Print Area	Single-Sided/Over-the-Edge
Resolution	300dpi

Print Speed

YMCK	Max. 25 sec./card (144 cards/hour)
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System

Display	2 Line Graphic LCD Indicator / 4 Buttons
Supported Platforms	Windows 10/11, Mac OS, Linux
Communication	USB, Ethernet (Option)
Power Supply	100-240V~ 50/60Hz 2.5A
Temperature/Humidity	15~35°C/35~70%

Certifications

CB CE FCC IC

Card

Card Feeding	Automatic
Card Size	ISO CR80 (54mm x 86mm/2.12" x 3.38")
Card Thickness	0.76mm (30mil) ~ 1.6mm (64mil)
Card Type	PVC, PET, Composite PVC

Capacity

Input Hopper	200 Cards
Output Hopper	100 Cards

Dimensions

Millimeter (WxDxH)	460 x 224 x 310
Inch (WxDxH)	18.1 x 8.8 x 12.2

Weight

Kg/lbs	11.4 / 25.13
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Encoding Options

Magnetic	ISO 7811 (Track I, II, III Read/ Write, HiCo/ LoCo)
Contact	ISO 7816 (ID-1)
Contactless	ISO 14443 (Type A/ B), ISO 18092(NFC), MIFARE, DESFIRE
Security	Physical & Electronic Locking System

Consumables

Color Ribbons

YMCK	YMCKK
Full Color Ribbon with Resin Black	Full Color Ribbon with Resin Black & Resin Black for Back Side
500 Cards/Roll	500 Cards/Roll

Retransfer Film

Retransfer Film
500 Cards/Roll

Ribbon & Film Package

YMCK & Retransfer Film
Full Color Ribbon with Resin Black & Retransfer Film



*Optional SMART-81L Lamination Add-On for SMART-81 Series Card Printers

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653636	SMART-81S
653538	Magnetic Stripe Enc. Standard
653539	Contact SmartCard Enc.
653540	Contactless SmartCard Enc.
653708	Contact IC (ISO 7816 ID-1) & Contactless
653547	YMCK & Retransfer Film Pack
653378	YMCKK (no film included)
653379	YMCFK (no film included)
653431	Retransfer INTM Film (no ink included)
653629	Clear 1mil Laminate Film
900849	Globe Flags Hologram 1 mil Film
653630	Celestial Hologram 1 mil Film
653631	Clear IC Chip, 1mil Film