DATACARD® MX8100™ CARD ISSUANCE SYSTEM

FAST AND EFFICIENT

The MX8100 system lets you choose from the following modules:

- *System controller*
- *High capacity card input*
- *Card cleaning*
- *Vision verification*
- *OCR-B/Bar code scanner*
- *Magnetic stripe encoding*
- *MM*
- *Barrel dual interface smart card personalization*
- *Graphics printing*
- *Color printing*
- *Laser engraving*
- *Basic topcoat*
- *Datacard® CardGard™ UV-curing topcoat*
- *Datacard® DuraGard® laminate*
- *Embossing*
- *Secure indent*
- *Topping*
- *Label affixing*
- *Card flippers*
- *Single-card buffer*
- *Multi-card buffer*
- *Quality assurance*
- *High capacity card output*
- *Datacard® MXD™ card delivery system*
- *Datacard® MXi™ envelope insertion system*

Greatest real-world throughput for high-volume issuance

The Datacard® MX8100™ card issuance system brings unrivaled speed, reliability and cost-per-card efficiency to your issuance operations. In addition to a rated speed of up to 3,000 cards per hour, it offers true field modularity, automated inline quality assurance, streamlined smart card handling and a variety of sophisticated physical and logical security features.

- **Our Fastest MX Series System.** Speed up to 3,000 cards per hour is enhanced by the factors that drive real-world yields — including unmatched productivity, inline quality assurance, seamless card handling and optimized operator interaction. More than raw speed, the MX8100 system sets a clear world standard for high-volume throughput.
- **Maximized Uptime.** The MX8100 system is our most productive high-volume system, providing optimal uptime and profitability. Operators have the ability to group multiple small jobs to increase overall efficiencies. Datacard® Certified Supplies featuring patented Intelligent Supplies Technology™ verifies that the correct supplies are loaded and warns operators when current supplies are running low to decrease downtime.
- **True Field Modularity.** Unlike competitive systems, the MX8100 System offers true field modularity. Entirely new or enhanced modules can be field-installed in a matter of minutes, which helps drive unmatched investment protection you get from Datacard Group.
- **Smart Card Felxibility.** An innovative barrel dual interface smart card module — powered by Datacard® Syntera® Customization Suite software — accommodates contact, contactless, dual interface or combi smart cards with a variety of coupler choices.
- **Quality Assurance Breakthroughs.** Automated inline quality assurance greatly reduces errors and waste by automatically verifying physical and electronic card elements. These capabilities reduce the need for manual inspection and directly contribute to higher throughput and lower costs. Savings are magnified when issuing smart cards.
- **Comprehensive Solution.** Seamless integration with Datacard® card delivery systems creates a powerful, complete card-to-finished mail package solution, enabling issuers to efficiently and cost-effectively increase customer engagement and drive new revenue.

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Module Specifications

MX8100 Module	Current Draw	Heat Output	Weight
System Controller	0.79 Amps at 230V	594 BTUs per hour	240.0 lbs (109.0 kg)
High Capacity Card Input	1.76 Amps at 230V	1,338 BTUs per hour	139.0 lbs (63.0 kg)
Card Cleaning	0.58 Amps at 230V	439 BTUs per hour	132.0 lbs (59.9 kg)
Vision Verification	0.47 Amps at 230V	365 BTUs per hour	105.0 lbs (47.63 kg)
OCR-B/Bar Code Scanner	0.46 Amps at 230V	348 BTUs per hour	93.0 lbs (42.2 kg)
Dual Head Magnetic Stripe Encoding	0.45 Amps at 230V	346 BTUs per hour	85.0 lbs (38.6 kg)
MM	0.44 Amps at 230V	344 TBD BTUs per hour	89.0 lbs (40.4 kg)
Barrel Dual Interface Smart Card Personalization	1.3 Amps at 230V (24 heads)	1,020 BTUs per hour (24 heads)	200.0 lbs (50.3 kg) plus 1.75 lbs (0.68 kg) per programming coupler
Dual Head Graphics Printing	1.20 Amps at 230V	874 BTUs per hour	116.0 lbs (52.6 kg)
Color Printing	1.93 Amps at 230V	1,476 BTUs per hour	348.0 lbs (157.9 kg)
Laser Engraving Gen 2	1.29 Amps at 230V	942 BTUs per hour	155.0 lbs (69.9 kg)
Basic Topcoat	1.79 Amps at 230V	1,390 BTUs per hour	197.0 lbs (89.4 kg)
CardGard™ UV-Curing Topcoat	2.24 Amps at 230V	6,790 BTUs per hour	340.0 lbs (154.2 kg)
DuraGard® Laminate	1.61 Amps at 230V	1,110 BTUs per hour	248.0 lbs (112.5 kg)
Embossing/Indent	0.80 Amps at 230V	606 BTUs per hour	123.0 lbs (55.8 kg)
Secure Indent	0.80 Amps at 230V	606 BTUs per hour	123.0 lbs (55.8 kg)
Topping	1.02 Amps at 230V	669 BTUs per hour	101.0 lbs (45.8 kg)
Label Affixing	0.56 Amps at 230V	415 BTUs per hour	100.0 lbs (45.4 kg)
Card Flippers	0.46 Amps at 230V	348 BTUs per hour	93.0 lbs (42.2 kg)
Multi-Card Buffer	0.39 Amps at 230V	304 BTUs per hour	90.0 lbs (40.8 kg)
Quality Assurance (vision & magnetic stripe only)	0.82 Amps at 230V	620 BTUs per hour	180.0 lbs (81.6 kg)
Quality Assurance (vision, magnetic stripe and smart card rack)	1.17 Amps at 230V (When configured with 11 stations)	882 BTUs per hour (When configured with 11 stations)	201.0 lbs (91.1 kg) Plus 1.5 lbs (0.68 kg) per station
Quality Assurance (vision, magnetic stripe and smart card barrel)	2.6 Amps at 230V (When configured with 24 heads)	2,040 BTUs per hour (When configured with 24 heads)	290.0 lbs (131.5 kg) Plus 1.75 lbs (0.79 kg) per smart card coupler
High Capacity Card Output	0.45 Amps at 230V	348 BTUs per hour	123 lbs (55.8 kg)
	Note: Datacard® MX6100™ and MX2100™ card issuance system modules cannot be used in the MX8100 system and MX8100 system modules cannot be used in the MX6100 and MX2100 systems.		

Key System Specifications

Rated Speed	Up to 3,000 CPH
Operating System	Microsoft Windows 7 Ultimate operating systems
Maximum Configuration	40 modules
Card Types Supported	ISO/IEC 7810 ID-1 Size; 30 mil (+/- 10%)
System Height	To top of module 50.1 in. (127.3 cm)
System Depth	33.8 in. (85.85 cm)
Electrical Requirements	230V, 50/60Hz, 15 Amps
Operating Requirements	Room temperature: 65° to 80° F (18° to 27° C); Humidity: 20% to 85% (non-condensing)
Storage Requirements	Room temperature: -50° to 130° F (-46° to 54° C); Humidity: 0% to 100% (non-condensing)
Agency Approvals	FCC, UL, cUL, CE and RoHS Compliant.
Card Materials Supported	All card materials can be processed, including PVC, composite, polycarbonate, ABS, PET and PETG. Limitations may exist for each personalization or verification technology.

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