DATACARD® PB6500™ HC PASSPORT ISSUANCE SYSTEM

Exceptional security and low total cost of ownership

COMPREHENSIVE PASSPORT PORTFOLIO

Government agencies and system integrators are rapidly making the enhanced Datacard® PB6500™ passport issuance system a preferred choice for passport programs worldwide. This highly efficient system is part of a comprehensive passport portfolio, which includes:

- **Scalable issuance.** The PB6500 high capacity system, the flagship of our passport issuance portfolio, brings efficiency, security and savings to centralized issuance operations. Our newest offering, the PB6500 Compact, offers forensically identical output with a much smaller footprint. Ideal for regional issuance or backup use.
- **End-to-end software.** We offer an integrated software platform for enrollment, identity verification, application approval, document issuance and post issuance management.
- **Intelligent supplies.** Datacard® Certified Supplies use exclusive patented Intelligent Supplies Technology™ to communicate with Datacard® systems. Patented radio frequency (RF) technology allow supplies to be identified as genuine, enabling unique features that optimize quality and performance. Our secure overlays enable operational prompts, which help prevent costly mistakes, enhance supply efficiency, and reduce overall supply costs.
- **Professional services.** Our secure identity experts can help with everything from design of secure passports and efficient operations to ongoing technical support.

Exceptional document security and low total cost of ownership

The Datacard® PB6500™ HC passport issuance system offers a no-compromise combination of advanced technology and a low total cost of ownership. Innovative laser engraving and color inkjet printing capabilities empower government agencies to elevate passport quality and provide strong lines of defense against sophisticated and ever-changing security threats. Consistent and efficient production, reduced booklet waste and true field modularity all contribute to consistently low operating costs and long-term investment protection.

- **Document and data security.** The PB6500 system delivers a full complement of personalization capabilities including both industry standard and Entrust Datacard proprietary features. A variety of substrates can be used with laser engraving, including thin polycarbonate pages. Logical security features also provide strong protection for demographics, biometrics and other proprietary data — both in the personalization process and on the chip.

- **Configurable design.** A truly field-modular design allows the system to be configured to accommodate specific program requirements and work spaces, while protecting overall capital investment. Configuration flexibility and fiber laser technology, which requires no external power or special cooling, also minimize space requirements. New modules can be added to the system to allow for increased capacity or to incorporate new technologies as they become available.

- **e-Passport issuance.** The system issues a variety of passport types, including e-passports. The chip encoding module is compatible with chips from a wide range of manufacturers and supports ICAO-compliant Basic Access Controls (BAC), Extended Access Controls (EAC) and Password Authenticated Connection Establishment (PACE) security protocols.

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POWERFUL ENHANCED DESIGN

The PB6500 passport issuance system combines true field modularity with exceptional reliability to keep operating costs low and production yields high. A variety of innovative features — including an enhanced laser engraving module — empower issuers to elevate the security of their passport booklets.

Elements of security

Every day government agencies are challenged to fight against fraud, including counterfeits and alterations. The PB6500 system helps government agencies protect against these threats. Our Security at Time Of Personalization™ methodology provides a proven process of personalizing books with variable data during the production process that help reduce counterfeit passports. Level 1 security features are easy to detect, yet difficult to counterfeit.

Lowering your total cost of ownership

Total cost of ownership includes factors such as capital costs, labor, true system speed, consumables and waste. The PB6500 system incorporates hundreds of features that have been specifically designed to help minimize these costs. For example, a highly reliable leafing module helps reduce booklet loading errors, print jams and other production issues that often result in wasted booklets. Datacard® patented Intelligent Supplies Technology™ optimizes usage of consumables and provides operator prompts to increase overall yields and reduce downtime. Together, these features contribute to a lower total cost of ownership.

SYSTEM CAPABILITIES

The PB6500 system offers a full range of personalization capabilities. True field modularity protects capital investment through scalability and upgradeability.

Quality and security

The Datacard PB6500 system contributes to high security, high quality and lower total cost of ownership.

PersoCurve™ security feature adds a security element that is difficult to replicate

LaserTact™ creates more prominent tactile laser impression of variable biographical data and static images or symbols. This provides more secure personalization that cannot be easily altered and provides tamper evidence.

LaserShadow™ provides an unobtrusive layered effect using background text or photo. Trends in data page design include multiple photos using different approaches, thus making the passport more difficult to counterfeit.

DATACARD® PB6500™ HC PASSPORT ISSUANCE SYSTEM

Controller
Manages the entire issuance process from a single and highly secure point of control

Input
Reliably feeds booklets into the system

Leafing
Automatically opens booklets to the appropriate page for personalization

Micro Laser Surface Imaging (MLSI)
Produce variable images or biographical data by creating very small bumps, which have different surface reflective properties than the area surrounding the personalized image — etched on a variety of materials including inside an OVD

Laser Perforation or Shape Perforation
Drills conical alpha/numeric characters and/or shapes through the visa pages to the back cover for added security

Chip Encoding
Securely encodes a wide range of passport chips

Laser
Efficiently engraves text, logos, photos, bar codes and unique security features to create highly secure documents

Color Inkjet
Prints crisp and clear full color photos, text and other data page elements

Secure Overlay
Thermally fuses clear or holographic overlays to the data page for increased security and durability

Quality Assurance
Automatically verifies personalized elements, whether electronic or printed

Output
Closes and stacks finished booklets

Expert deployment, minimized risk

Entrust Datacard collaborates with industry organizations and standards groups, such as ISO and ICAO. Our deep understanding of industry standards and best practices results in secure identity solutions that meet both technical and market requirements. Our experience implementing secure credential programs around the world allows us to help customers deploy highly efficient programs and minimize program risk. Every day, our solutions are used to issue more than 15 million cards and smart cards and tens of thousands of passports.

Module	Current Draw	Heat Output	Weight
System Controller	0.79 Amps at 230VAC	594 BTUs per hour	232.0 lbs (105.2 kg)
Passport Input	0.31 Amps at 230VAC	245 BTUs per hour	100.0 lbs (45.4 kg)
Booklet Leafing	0.64 Amps at 230VAC	502 BTUs per hour	123.0 lbs (55.8 kg)
Laser Perforation	4.08 Amps at 230VAC	3201 BTUs per hour	315.0 lbs (142.9 kg)
Shape Perforation	4.08 Amps at 230VAC	3201 BTUs per hour	315.0 lbs (142.9 kg)
MLSI	4.08 Amps at 230VAC	3201 BTUs per hour	315.0 lbs (142.9 kg)
Chip Encoding	1.75 Amps at 230VAC	1373 BTUs per hour	112.0 lbs (50.8 kg)
Laser 350 Module	1.36 Amps at 230VAC	554 BTUs per hour	153.0 lbs (69.4 kg)
Color Inkjet Printing	2.74 Amps at 230VAC	1490 BTUs per hour	299.0 lbs (135.6 kg)
Secure Overlay	1.96 Amps at 230VAC	979 BTUs per hour	123.0 lbs (55.8 kg)
Quality Assurance	1.75 Amps at 230VAC	1373 BTUs per hour	105.0 lbs (47.6 kg)
Booklet Closing	1.75 Amps at 230VAC	1373 BTUs per hour	105.0 lbs (47.6 kg)
Single Passport Buffer	0.39 Amps at 230VAC	308 BTUs per hour	90.0 lbs (40.8 kg)
Passport Output	0.37 Amps at 230VAC	287 BTUs per hour	100.0 lbs (45.4 kg)

Key System Specifications	
Rated Speed	Up to 400 passports per hour, depending on system configuration and personalization specifications
Operating System	Microsoft® Windows® Embedded Standard 7
Maximum Configuration	33 modules
Fiber Laser Classification	Class 1 laser product
C02 Laser Classification	Class 1 laser product (Class IV laser emissions used in process)
Passport Booklets	ICAO 9303 compliant (88mm x 125mm), maximum spine thickness of 6.5mm; alternative sizes may be available upon request
System Height	50.1 in. (127.3cm) to top of module
System Depth	33.8 in. (85.9cm)
Electrical Requirements	230V, 50/60 Hz, 12 Amps for most configurations. Configurations using Laser Perforation or Shape Perforation will require an additional power drop due to its own power consumption
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	UL, FCC and CE compliant, RoHS compliant

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