HID®

LaserCard®
Optical Security
Media (OSM)

OPTICAL SECURITY MEDIA FOR UNSURPASSED SECURITY AND COUNTERFEIT RESISTANCE FOR ID CARDS

- **Visual security** – Layered and blended with overt, covert and forensic features.
- **Digital security** – Never compromised, providing assured authentication and secure off-line applications.
- **Physical security** – Cannot be fraudulently altered and is unequalled in counterfeit resistance.
- **Durability** – Supports long-life programs and withstands harsh environmental conditions, delivering enhanced reliability.

Acknowledged for its industry-leading attributes, HID Global's LaserCard® Optical Security Media (OSM) is specified for high profile government ID programs around the globe, including the US Permanent Resident "Green Card". OSM offers a comprehensive visual, digital and physical security features in one package. It is extremely resistant to forgery attempts and is unequalled in its counterfeit-resistance.

OSM visual security features include ultra-high resolution security patterns and images. These can be forensic and or visible to the naked eye, providing a high level of confidence in visual authentication. They are further enhanced with an unalterable, optically variable, laser "etched" personalized image of the cardholder.

HID's LaserCard OSM technology can be integrated with other machine-readable technologies, such as contact and or

contactless microprocessor chips, on the same ID card platform to increase security and functionality. A wide variety of integrated circuits are available; customers can choose the chips or operating systems that best suit their requirements.

OSM also features high capacity data storage that is entirely tamperproof, and stored data can be securely updated throughout the life of the card. This unalterable digital data, which can include high resolution biometric images, supports confident offline identity verification.

OSM is delivered on a highly durable and laminated polycarbonate card structure, enhancing the reliability and longevity of the credential. This also ensures compliance with the most stringent physical and mechanical ISO and ICAO requirements.

There is no known instance of a successful attempt to compromise the digital security of HID Global's LaserCard OSM.
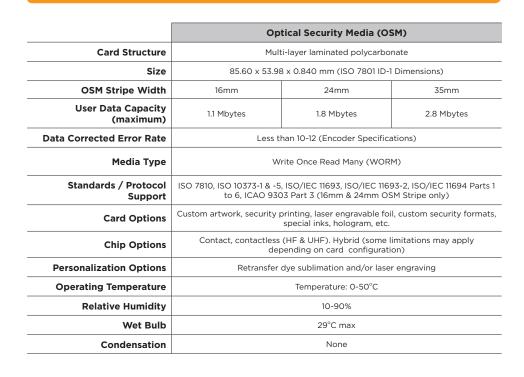
TECHNOLOGY HIGHLIGHTS:

- Optimal visual, digital and physical security
- Personalized optically variable device
- Performance tested for durability
- Compliant with ISO and ICAO standards

APPLICATION AREAS:

- Government to Citizen ID
  - National or Citizen ID
  - Foreign Resident ID
  - Drivers License
  - Vehicle Registration
- Health Care
  - Portable Clinical Record
  - Provider ID

SPECIFICATIONS

	Optical Security Media (OSM)		
Card Structure	Multi-layer laminated polycarbonate		
Size	85.60 x 53.98 x 0.840 mm (ISO 7801 ID-1 Dimensions)		
OSM Stripe Width	16mm	24mm	35mm
User Data Capacity (maximum)	1.1 Mbytes	1.8 Mbytes	2.8 Mbytes
Data Corrected Error Rate	Less than 10-12 (Encoder Specifications)		
Media Type	Write Once Read Many (WORM)		
Standards / Protocol Support	ISO 7810, ISO 10373-1 & -5, ISO/IEC 11693, ISO/IEC 11693-2, ISO/IEC 11694 Parts 1 to 6, ICAO 9303 Part 3 (16mm & 24mm OSM Stripe only)		
Card Options	Custom artwork, security printing, laser engravable foil, custom security formats, special inks, hologram, etc.		
Chip Options	Contact, contactless (HF & UHF). Hybrid (some limitations may apply depending on card configuration)		
Personalization Options	Retransfer dye sublimation and/or laser engraving		
Operating Temperature	Temperature: 0-50°C		
Relative Humidity	10-90%		
Wet Bulb	29°C max		
Condensation	None		

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