HID Global’s iCLASS SE® platform goes beyond the traditional smart card model to offer a secure, standards-based and flexible platform that has become the new benchmark for highly adaptable, interoperable and secure access control solutions.

Ideal for new and existing installations, iCLASS SE readers provide customers the assurance that their existing investments can be leveraged to enhance their system as business requirements change. The technology-independent readers also support iCLASS Seos and iCLASS SE credential platforms, as well as standard iCLASS, MIFARE and MIFARE DESFire EV1 supporting custom data models.

Additionally, iCLASS SE readers support mobile devices utilizing Seos, enabling a new class of portable identity credentials that can be securely provisioned and safely embedded into both fixed and mobile devices.

As part of HID Global’s iCLASS SE platform that is based on the Secure Identity Object™ (SIO®) data model and Trusted Identity Platform® (TIP®), the powerfully secure iCLASS SE readers offer advanced features such as layered security beyond the card media and tamper-proof protection of keys/cryptographic operations using EAL5+ secure element hardware.

**HIGHLY ADAPTABLE AND SECURE HIGH FREQUENCY ACCESS CONTROL SOLUTION**

- **Powerfully Secure** – Provides layered security beyond the card media for added protection to identity data using SIOs.
- **Adaptable** – Interoperable with a growing range of technologies (iCLASS® Seos™ and iCLASS SE® credential platforms, standard iCLASS®, MIFARE®, and MIFARE DESFire® EV1 with custom data models) and form factors including mobile devices utilizing Seos™.
- **Interoperable** – Open Supervised Device Protocol (OSDP) for secure, bidirectional communication.

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**HIGHLY ADAPTABLE:**
- Mobile device support using card emulation - enabling HID access control.
- Allows for support of future technologies.
- Field Programmable Readers – Provides secure upgrades for migration and extended lifecycle.

**POWERFULLY SECURE:**
- Multi-Layered Security – Ensures data authenticity and privacy through the multi-layered security of HID’s SIO.
- EAL5+ Certified Secure Element Hardware – Provides tamper-proof protection of keys/cryptographic operations.
- Secured communications using OSDP with Secure Channel Protocol.
- Expanded iCLASS Elite™ Program – Extends private security by protecting uniquely keyed credentials, SIOs and programming keys.

**INTEROPERABLE:**
- SIO Media Mapping – Simplifies deployment of third-party objects to multiple types of credentials.
- Industry standard communications using OSDP.
- Custom programming support to read models on MIFARE and MIFARE DESFire EV1 credentials.

**SUSTAINABILITY AND MANAGEMENT:**
- Intelligent Power Management (IPM) – Reduces reader power consumption by as much as 75% compared to standard operating mode.
- Recycled Content – Contributes toward building LEED credits.

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**Recycled Content** – Contributes toward building LEED credits.
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Name</th>
<th>R10</th>
<th>R15</th>
<th>R30</th>
<th>R40</th>
<th>RK40</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Part Number</td>
<td>900N</td>
<td>910N</td>
<td>930N</td>
<td>920N</td>
<td>921N</td>
</tr>
</tbody>
</table>

#### 13.56 MHz Single Technology ID-1 Credentials (Cards) – SIO Data Model

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</tbody>
</table>

#### Typical Read Range* (inches)

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</table>

#### Operating Voltage Range

<table>
<thead>
<tr>
<th>Operating Voltage Range</th>
<th>Current Draw - Standard Power Mode** (mA)</th>
<th>Current Draw - Intelligent Power Management (IPM) Mode*** (mA)</th>
<th>Peak Current Draw - Standard Power or IPM Mode*** (mA)</th>
<th>NSC** Power Consumption - Standard Power Mode (W @ 16VDC)</th>
<th>NSC** Power Consumption - w/ IPM (W @ 16VDC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-16 VDC, Linear supply recommended</td>
<td>70</td>
<td>110</td>
<td>70</td>
<td>80</td>
<td>105</td>
</tr>
</tbody>
</table>

#### Operating Temperature

-37°F to 150°F (-35°C to 65°C)

#### Storage Temperature

-67°F to 185°F (-55°C to 85°C)

#### Operating Humidity

5% to 95% relative humidity non-condensing

#### Environmental Rating

IP55

#### Transient Frequency

13.56 MHz

#### 13.56 MHz Card Compatibility

- Secure Identity Object™ (SIO) on iCLASS SE/SR, SE for MIFARE DESFire EV1 and SE for MIFARE Classic (On by Default)
- Non-default programmable options include: additionally support - MIFARE and MIFARE DESFire EV1 custom data models
- standard iCLASS Access Control Application (order with Standard interpreter)
-ISO14443A (MIFARE) CSN, ISO14443B CSN, ISO15693 CSN
-UL294 (Card), TIP and iCLASS Elite are trademarks or registered trademarks of HID Global in the U.S. and/or other countries. All other trademarks, service marks, and product or service names are trademarks or registered trademarks of their respective owners.

#### Communications

Optional OSDP with SCP over RS485

Wiegand/Clock-and-Data Interface 500Hz (50m) (22AWG) - Use Shielded cable for best results

#### Panel Connection

Pigtail or Terminal Strip

#### Certifications

UL294/iUL**** (US), FCC Certification (US), IC (Canada), CE (EU), C-tick (Australia, New Zealand), SRRC (China), MIC (Korea), NCC (Taiwan), IDA (Singapore), RoHS, FIPS-201 Transparent FASC-N Reader

#### Crypto Processor Hardware Common Criteria Rating

EAL5+

#### Housing Material

UL94 Polycarbonate

#### Warranty

Limited Lifetime

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* Typical read range achieved in air. Different types of metal will cause some degradation (typically up to 20%).

** Use spacers to space product off metal and improve read range if required.

*** NSC = Normal Standby Current

**** Measured in accordance with UL294 standards

**** UL294 functionally certified for Wiegand output only