IOM Biometric Module

SRI Identity offers original equipment manufacturers (OEMs) an affordable, compact module that adds iris biometric identity management to their customized security applications. Among biometric modalities, iris recognition provides exceptional accuracy and reliability with one of the lowest false identification rates.

Ease of Use
SRI’s module enables effortless, standoff authentication wherever required. A simple glance will activate the biometric-enabled system.

- Standoff identification up to two feet away
- Simultaneous dual-iris capture and recognition in only three seconds
- Accommodates a wide range of subject heights—from children to adults
- Minimal user training required

Seamless Security
The IOM module—equipped with SRI’s patented and proven iris recognition capabilities—supports onboard enrollment and identification. Applications can be standalone or networked. Biometric information can be stored locally using advanced encryption techniques or transferred to a network server. Additionally, the module can collect and transmit face images for remote monitoring applications.

Flexibility of Design
The IOM module’s small size, weight and power requirements allow OEMs to integrate iris recognition into a host of new applications and form factors. Ideal uses include server cabinets, key boxes and door locks, as well as payment kiosks, ATMs and elevators. The module is cost-competitive with established identity solutions.

- Battery- or DC-powered
- Extended temperature operating range for use in all environments
- Integrates into larger networked security systems
- Customizable for new end user applications, including additional communication and power interfaces

Iris biometrics differentiates your custom hardware offerings
Specifications

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<tbody>
<tr>
<td>Dimensions</td>
<td>5.71 cm x 11.43 cm x 5.75 cm (2.25 in x 4.50 in x 2.27 in)</td>
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<tr>
<td>Standoff Distance</td>
<td>40 to 60 cm (15.7 to 23.6 in)</td>
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<tr>
<td>Iris Recognition Speed</td>
<td>&lt; 3 sec</td>
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<tr>
<td>Power Requirements</td>
<td>3.6 to 6.0 VDC, 3.4 A peak at 3.6 V</td>
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<tr>
<td>Weight</td>
<td>90 g (3.2 oz)</td>
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<tr>
<td>Operating Temperature</td>
<td>-20 to 60° C</td>
</tr>
<tr>
<td>Connectivity</td>
<td>12-pin Molex connector, UART and SPI serial communication</td>
</tr>
<tr>
<td>Built-in Enrollment Capability</td>
<td>Yes</td>
</tr>
<tr>
<td>On-board Enrollment Storage</td>
<td>250 users (500 eyes)</td>
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<tr>
<td>Lighting Conditions</td>
<td>1 to 4000 lux</td>
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Case Study — KEES™ Smart Lock with IOM Technology

Korea Technology and Communications (KT&C), a leading provider of high-definition surveillance and security solutions, partnered with SRI to develop an iris-activated door lock for the residential security market.

**Challenge** | SRI overcame stringent design requirements to make iris recognition viable in this application.

*Low Power:* Standard AA batteries power the module  
*Compact Size:* No larger than a typical card reader  
*Exceptional Range:* Accommodates children as well as adults

**Result** | KEES™ smart lock incorporates SRI’s proven iris recognition capabilities for enhanced security and ease of use. A quick glance unlocks the door.

Capture Volume

![Capture Volume Diagram]

SRI Identity™

SRI Identity develops solutions to verify and manage identity information. With proven installations around the world, we address a diverse range of applications including secure workplaces, critical infrastructure, public arenas and border control. Using our unique technical expertise developed through a long history of research and innovation, we create and integrate the world’s fastest, most accurate, versatile and non-intrusive identity solutions.

**STAY CONNECTED**

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