# 600TGGNN

## ISO Card, Composite, SIO Enabled UHF Card, White

### U90 long range reader

HID Global's iCLASS SE ® U90 long range readers offer an extended range solution for parking and gate control. Featuring advances encryption technology, the solution delivers the most secure ultra-high frequency (UHF) access control on the market. With a read range of up to five meters, the iCLASS SE U90 can read multiple credential types and support a mixed credential population. The ability to combine building access with parking and gate control on a single card or fob offers both convenience and security.

As part of HID Global's iCLASS SE platform for advanced security, the readers utilize state-of-the-art authentication through the platform's Secure Identity Object (SIO) data model. When paired with SIO-enabled UHF credentials, the platform provides trusted and secure communication between the card and reader to prevent unauthorized access. The iCLASS SE U90 long range reader is built on the Security Industry Association (SIA) Open Supervised Device Protocol (OSDP) standard, which also ensures secure transmission of data from the reader to the controller.

### SIO Enabled  UHF Technology  Smart Card

The SIO Enabled UHF Smart Card is an extension of the iCLASS SE® platform, providing a secure ultra high frequency (UHF) long range parking and gate control solution. The UHF card can be read from distances of up to five meters for long range identification.
The SIO Enabled UHF Smart Card is the a secure UHF credential. The reader issues a password to obtain access to protected areas of the tag's memory for safe storage of confidential or business sensitive data in the tag's user memory. In addition to this security measure, HID Global's (SIO) data model adds a layer of encryption and authentication for advanced security and performance.

The smart card is cost effective, due to the underlying passive UHF technology. The card does not contain a battery. Powered by the reader, the SIO Enabled UHF Smart Card eliminates the need for battery maintenance.
The solution offers secure contactless read/write smart card technology along with the ability to add anti-counterfeiting features. These features include custom artwork or photo identification imprinted directly on the card. The SIO Enabled UHF Smart Card meets strict ISO standards for thickness and can be used with high definition printers. It is strong, flexible and resistant to cracking and breaking.




### Details

- Impressive read range – Ultra high frequency (UHF) technology can be read from a distance of up to five meters depending on frequency, reader and environment.
- Highly secure – Secure Identity Object® (SIO®) enabled, for multi-layered security beyond the card technology, protecting identity data from unauthorized access.
- Compliant - EPC Class-1 Generation-2 and UHF ISO 18000-6C compliant credentials containing Secure Identity Object® (SIO®) encryption technology.
- Reliable – Able to withstand 100,000 write cycles for high read/write reliability and a long use life.
- Cost effective – Passive no-battery design does not require maintenance.

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## Technical specifications

### System

| | |
|---|---|
| Reading distance | more than 20 cm |
| Custom data model | No |
| Card slot punch | No |

### Technology

| | |
|---|---|
| Credential type | Long range |
| Credential operating frequency | 868 MHz, 900 MHz |
| Support technology UHF | UHF EPC Class 1 Gen 2/ISO 18000-6C |
| Transmit frequency | 865 - 868 MHz / 902 - 928 MHz (dependent on regional regulations) |
| Typical maximum read range | 3 to 5 meters |
| Baud Rate | Reader to card data rate: 26.7Kbit/s ->128Kbit/s<br>Card to reader data rate: 40Kbits/s -> 640Kbit/s |
| Memory Type | Non-volatile memory (NVM), read/write (Encoding choice and data rate are configured by the reader) |
| Data Retention | 100,000 cycles |
| Write Endurance | 50 years |
| SIO Enabled Memory Specification | 512 bit of user memory to store a PACS SIO |
| Card compatibility | EPC Class-1 Generation-2 and ISO18000-6C compliant |

### Printing

| | |
|---|---|
| Direct surface printing | No |
| Thermal transfer printing | Yes |

### Ordering information

| | |
|---|---|
| Minimum order quantity | 100 |
| Cards/tags in package | 1 |
| Special card order form required | Yes |

### Physical

| | |
|---|---|
| Surface cover | Glossy |
| Material | Composite |
| Form factor | CR80 (Credit) |
| Physical dimensions | 54 x 85.7 x 0.84 mm |
| Net weight | 5.7 g |
| Colour | White |

### Environmental

| | |
|---|---|
| Operating temperature | -40 to 70°C |
| Storage temperature | -40 to 70°C |
| Relative humidity | 5 to 95% noncondensing |

### Regulatory

| | |
|---|---|
| Compliancy | RoHS |

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