



Multi-Technology Triple Interface Cards



COMPREHENSIVE CONTACTLESS SMART CARD WITH ULTRA HIGH FREQUENCY

- **Provides long-range capabilities** - High-quality, multi-technology smart card with 125 KHz Prox, iCLASS 13.56 MHz and UHF for support of long-range, frictionless applications, including garage/gate opening.
- **Supports Secure Identity Object® (SIO®)** - Multi-layered security beyond the card technology provides added protection to identity data stored in the HF/UHF chips.
- **Trusted management and distribution of secure identities** - Trusted identity within iCLASS SE® platform of interoperable products.
- **Maximize investments** - Multi-purpose card supports existing RFID technologies and smooth migration to iCLASS SE platform.

FEATURES:

- Multi-application solution with support for three contactless technologies in a single card (credit card size).
- Supports 125 KHz proximity with convenient read range/flexible format programming for support in legacy proximity readers.
- Increased security for physical access control.
- Backward compatibility with existing iCLASS and forward compatibility with the new generation of iCLASS SE readers.
- Composite card construction for extended life span.
- Customization options include magnetic stripe, external card numbering, custom artwork and contact smart chip module (embeddable card).

HID Global's iCLASS® + UHF + Prox multi-technology card leverages read/write contactless smart card technology to support a variety of applications, so users can use a single card to access buildings, as well as authenticate to other devices and readers from a greater distance using its UHF interface.

With the presence of the UHF interface, the card supports additional use cases, including opening garage doors while inside a car as well as iCLASS's commonly supported applications for biometric verification, cashless vending, public transportation, airline ticketing and customer loyalty programs. The card is also available in an "embeddable" card version that allows third-party companies to incorporate their own contact module to support additional applications, including PC login and secure access to IT resources.

Designed to make access control more versatile and secure, the iCLASS + UHF + Prox card is part of HID Global's iCLASS SE access control platform. The platform goes beyond traditional smart card models to offer a secure, standards-based, technology-independent and flexible identity data structure based on Secure Identity Objects (SIOs) and HID's Trusted Identity Platform (TIP) architecture for securing management and distribution of identities.

iCLASS + UHF + Prox also features several customization options via HID Secure Identity Services™. These options include integrating security countermeasures, graphical artwork and custom programming for each RFID interface.

iCLASS TECHNOLOGY FEATURES :

- 13.56 MHz iCLASS technology with SIO support.
- Read/write contactless smart card technology for high-speed, reliable communications with data integrity check.
- Meets ISO 15693/14443B for contactless communications.
- Proven technology provides consistent read range not affected by body shielding or variable environmental conditions.
- Multiple securely separated application areas are each protected by 64-bit diversified read/write keys that allow complex applications and provide for future expansion.
- Durable, passive, no-battery design allows for an estimated minimum 100,000 cycles. Strong, flexible, and resistant to cracking and breaking.

UHF TECHNOLOGY FEATURES:

- Based on ISO/IEC 18000-6C.
- Loaded with SIO data objects for heightened security in long distance authentication.
- 100,000 cycles / 50 year retention reliability
- Unique serial number for each UHF chip
- 512 bits of user memory, 128 bits of EPC memory


SPECIFICATIONS

Base Part Number	600 for standard card
iCLASS Operating Frequency UHF Operating Frequency	13.56 MHz 860-960 MHz
iCLASS Typical Maximum Read Range UHF Typical Maximum Read Range	3-4 in. (depending the reader used) 18-21 ft. (depending the reader used)
UHF Technology	EPC Class1 Gen2 protocol compliant
UHF Memory	512 bits of user memory, 128 bits of EPC memory
Construction	Composite with 60% PET/40% PVC
Operating Temperature	-40° to 158° F (-40° to 70° C)
iCLASS Transaction Time	<100 ms typical
iCLASS Baud Rate	14443 B2 mode - 212 kbps 15693 mode - 26 kbps
iCLASS Memory Type	EEPROM, Read/write
iCLASS Multi-application Memory	32k bit (4K Bytes) card - 16k bits in 2 or 16 application areas plus 16k bits user
Card Options	Magnetic Stripe, External Card Numbering, Custom Artwork (Text or Graphics)
Supported Readers	Any reader that can read Proximity 125 KHz, iCLASS or iCLASS SE Technology
Warranty	Lifetime, see complete warranty policy for details



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