



# Enhanced iCLASS® Readers (Rev C)

## Frequently Asked Questions

The new iCLASS Revision C readers are designed with many new features and benefits, including enhanced visual indicators and the elimination of the need to use shielding cabling, as well as the capability to upgrade firmware in the field.

While the immediate benefits of using the new Revision C readers are easily recognized, there are future plans to expand the functionality of this reader platform without hardware change, including adding credential compatibility upgrades to advanced key management, providing best-in-class functionality among access control readers on the market.

Functional enhancements, as well as limited form and fit differences in iCLASS Revision C readers, are summarized in the questions and answers below.

## Reader Models

### ► Is HID Global revising all iCLASS reader models?

No. The following models have been affected:

- R10, RW100
- R15, RW150, RP15
- R30, RW300
- R40, RW400, RP40

Revisions for HID's keypad reader (RK40, RPK40 and RWK400) are expected to follow in 2009.

## New Features

### ► Do iCLASS Revision C readers have any new features?

Yes. Field firmware upgrades are now possible via Application Cards. This new feature will enable application upgrades for iCLASS Revision C readers in the field.

### ► How do I know if an application card is required?

Your HID technical support representative will inform you when an application card is required. Application cards are seldom used and therefore are not required for installation or normal maintenance of iCLASS Revision C readers.



## Bezel Construction

### ► Are iCLASS Revision C readers constructed using three pieces of plastic?

No. Identical to the first revision of R15, RP15 and RW150, all iCLASS Revision C readers are constructed using only two pieces of plastic. Due to lack of demand for interchangeable and replaceable front bezel covers, HID has increased its plastic durability by moving to a two piece design. The two pieces consist of a combined cover/reader (piece #1) and a backplate (piece #2).



iCLASS Revision B (three pieces)

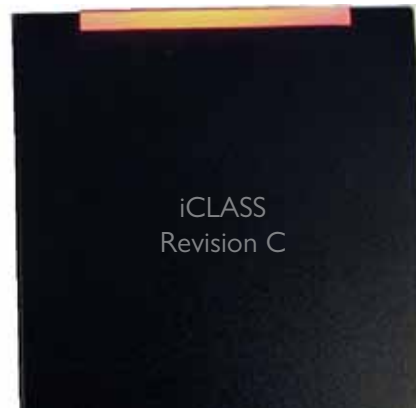
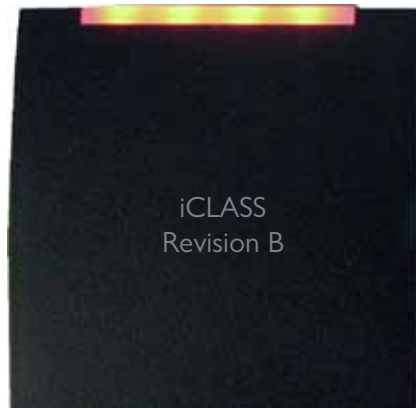


iCLASS Revision C (two pieces)

## Visual Indicator (LEDs)

### ► What is new about the iCLASS Revision C reader visual indicator?

The Revision C reader LED window results in uniform distribution of light. This eliminates bright individual light spots (depicted below on left). The LED window has a bright and uniform lighting that shows a clearer and brighter indication of reader and door control.



## Back Plates

### ► Has the screw location used to affix the cover/reader to the backplate changed?

Yes. For iCLASS reader models R30, RW300, R40, RW400, RP40, HID has moved the screw location from the far right to near center, just below the right portion of the HID logo, further reducing the ability to tamper with the reader. Below depicts the change in location from Revision B (left) to new Revision C (right) for R40, RW400 and RP40 readers. Note that screw location for reader models R10, RW100, R15, RW150 and RP15 has not changed.



### ► Are the backplates of iCLASS Revision B readers interchangeable with those of the iCLASS Revision C reader?

It depends upon the reader model. For R30, RW300, R40, RW400, RP40 iCLASS reader models the bottom screw location has moved, so it is not interchangeable. However, for iCLASS reader models R10, RW100, R15, RW150 and RP15, it is interchangeable with the backplate of the Revision B model.

### ► Why do iCLASS Revision C readers have a plastic backplate?

For maximum credential compatibility, HID Global manufactures iCLASS readers with a plastic backplate. In past models, iCLASS readers were available in both metal and plastic. Due to the reader requirements produced by new credential design, HID has designed this latest revision reader with a plastic backplate in order to offer the customer the most extensive credential compatibility in a reader product today.

## Differentiation

### ► What is the best way to determine if you are using an iCLASS Revision C reader or and older version?

- By far the most accurate way to determine which version you are using is by removing the backplate and reading the part number of the product label. The part number appears at the top of the label, with the fifth character noting which product revision you are using (For example: If your part number is 6120C, then you are using a Revision C reader).
- Observe the LED window. If you can see individual bright spots then you are not using a Revision C reader.
- With the RP40, R40, RW400, R30 and RW300 (only), you can observe the screw location. If the screw is located under the right part of the logo area on the front of the reader, the product is a Revision C reader.



## Part Numbers

▶ **Will the part numbers for iCLASS Revision C readers change from previous revisions?**

Yes. Once the iCLASS Revision C readers are fully released worldwide, part numbers in the 13.56 MHz Physical Access How To Order Guide (HTOG) will be updated and the new part numbers will be available.

## Pricing

▶ **Will pricing of iCLASS Revision C readers differ from previous product revision pricing?**

No.

## Distribution

▶ **From today on, will all shipments of iCLASS readers be Revision C?**

No. Revision C readers will begin shipment effective June 1, 2009.

## Certifications

▶ **Do iCLASS Revision C readers carry identical radio and safety certifications as iCLASS Revision B readers?**

No. Revision C iCLASS readers have obtained all radio and safety certifications except for Japanese MIC. MIC (Japan) is currently in process, but not fully complete. The date for completion is currently unknown.

▶ **Are iCLASS Revision C readers listed on U.S. General Services Administration (GSA) FIPS 201 Approved Products List (APL)?**

Yes. All HID iCLASS Revision C readers are on the APL.

▶ **My company previously listed HID's iCLASS readers on the APL. Does my company have to repeat the process to list re-branded and re-modeled iCLASS Revision C readers on the APL under our own name?**

Yes. Contact your HID sales representative, who can assist your company with the process of preparing FIPS reseller forms.

## Spacers

▶ **Can the iCLASS Revision C readers use the current R10 and RW100 spacers (part number 6132AxB)?**

Yes. The R10 and RW100 spacers are interchangeable between iCLASS readers of Revision A, B and C.

## Read Range

▶ **Has the read range of iCLASS credentials changed?**

No. Noticeable changes in read range have not occurred.

▶ **Has the read range of HID Prox credentials changed (RP15 and RP40 only)?**

No. Noticeable changes in read range have not occurred.

▶ **Has the read range of Indala Proximity credentials changed (RP15 and RP40 only)?**

No. Noticeable changes in read range have not occurred.

▶ **Has the read range of FIPS 201 PIVII credentials changed?**

No. Noticeable changes in read range have not occurred.

▶ **Has the read range of MIFARE and DESFIRE (CSN) credentials changed?**

Test results of iCLASS Revision C readers yielded minor +/- variations from the iCLASS Revision B readers. These variations are within specification tolerances. No improvements or differences are expected to be noticeable by the end-user. Revision C iCLASS readers, when compared against SmartID (CSN) and FlexSmart (CSN), maintain or exceed performance. The newest revision of iCLASS readers will enable even more functionality and increased credential compatibility in the future without the need to replace iCLASS hardware in the field.