



# pivCLASS<sup>®</sup>

## How to Order Guide

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The most current version of this document is available for download at [www.hidglobal.com/main/developers/pivclass](http://www.hidglobal.com/main/developers/pivclass).

To check order status, go to:

[www.hidglobal.com](http://www.hidglobal.com) > Knowledge Center > Customer Support > Customer Order Status.

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### Document History

Date	Author	Description	Version
July 6, 2012	LD	Corrected an error. Added the Validation Server USB option.	A.3
June 28, 2012	BD, RP	Removed pivCLASS Validation Server CD, 6714-306-01 and PIV Audit Card Package. Added 6714-306-04.	A.2
April 12, 2012	DD, BD	Corrected PIV+PIN typos; added PIV Audit Card Package Part Number, API DTK and new training	A.1
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## **pivCLASS Introduction**

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HID Global's pivCLASS<sup>®</sup> Government Solutions portfolio is an extensive product family making it easy for U.S. Federal Government, government contractors and other facilities to comply with security regulations. By using Personal Identity Verification (PIV) and other smart cards for physical access control results in compliance, interoperability and high security.

The pivCLASS modular approach provides government agencies the ability to use their PIV identity cards for strong public key infrastructure (PKI)-based validation for physical access control. The solution enables this functionality without the need to "rip and replace" existing physical access control systems (PACs), reducing costs, and removing complexities to make it easy and affordable to acquire, install and maintain compliant physical access control systems.

pivCLASS accomplishes this in part by communicating with an agency's PACs and external trust authority PKIs to deliver functionality specified by National Institute of Standards and Technology (NIST) Federal Information Processing Standards Publication 201 (FIPS 201).

Ordering information for all pivCLASS components are included in this How to Order guide.

## Bundles

Bundles are a pack of 2 readers with a pivCLASS Authentication Module (PAM). Purchase one or both of these bundles for ease of ordering.

### Readers and Authentication Module performing CAK / CHUID Authentication for Controlled Areas

Description		Part Number								
		Base Part No.	125 kHz Prox Interpreters <sup>1</sup>	13.56 MHz Interpreters	Controller Communication	Controller Hardware Connection	Product Version	Color	Security <sup>2</sup>	Configuration Settings <sup>3</sup>
Qty 2 x  pivCLASS R40-H OR pivCLASS RP40-H Contactless Smart Card Reader: Finished Reader, Wall Switch	Qty 1 x  pivCLASS Authentication Module (Model: M2000) Authentication module hardware, firmware and installation guides. Includes PAM with plastic enclosure and mounting plate. Includes one year of maintenance and support.	B920	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	H = CAK/ CHUID Authentication	R = pivCLASS Protocol (Full-Duplex RS485)	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	0 = Standard-1 E = Elite	0000 = Default

### Readers and Authentication Module performing PIV + PIN Authentication for Limited Areas

Description		Part Number								
		Base Part No.	125 kHz Prox Interpreters <sup>1</sup>	13.56 MHz Interpreters	Controller Communication	Controller Hardware Connection	Product Version	Color	Security <sup>2</sup>	Configuration Settings <sup>4</sup>
Qty 2 x  pivCLASS RKCL40-P OR pivCLASS RPKCL40-P Contactless and Contact Smart Card Reader: Finished Reader, Wall Switch US Double-Gang Size	Qty 1 x  pivCLASS Authentication Module (Model: M2000) Authentication module hardware, firmware and installation guides. Includes PAM with plastic enclosure and mounting plate. Includes one year of maintenance and support.	B923	N = without Prox P = with Prox (Std) L = with Prox (Custom)	P = PIV + PIN Authentication	R = pivCLASS Protocol (Full-Duplex RS485)	N = Pigtail T = Terminal Strip	A	K = Black	0 = Standard-1 E = Elite	0000 = Default

<sup>1</sup> 125 kHz Prox Interpreters: Order P for standard format support = HID Prox, AWID, EM4102 and Indala (10022 – 26-bit). Order L for custom Indala format support = HID Prox, AWID, EM4102 and Indala (Custom – provide reader format number with order)

<sup>2</sup> iCLASS Security Options (Factory or Field Configurable):

0 = Standard Security (Version 1) Keypad – coupled with the Standard 13.56 MHz interpreter provides compatibility with iCLASS SE, iCLASS SR, standard iCLASS, SE for MIFARE Classic and SE for MIFARE DESFire EV1 credentials.

E = Elite reads only SE Elite™ credentials with unique matching keys. Works with iCLASS SE, iCLASS SR, standard iCLASS, SE for MIFARE Classic and SE for MIFARE DESFire EV1 with matching Elite keys. Line item on PO requires ICE reference number.

<sup>3</sup> Configuration Settings – CAK/CHUID



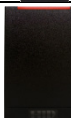
CAK / CHUID authentication on FIPS 201 credentials using contactless interface. Authentication driven from pivCLASS Authentication Module (M2000). Additionally reads SIO on iCLASS SE, iCLASS SR, SE for MIFARE Classic and SE for MIFARE DESFire EV1. If "With Prox" reader version the reader also reads 125 kHz HID Prox, AWID, Indala (ASP10022), EM4102. LED / beeper behavior is driven from M2000. To order non-default configuration options, use the [iCLASS SE Configuration Worksheet](#).

<sup>4</sup> Configuration Settings – PIV + PIN

PIV + PIN authentication on FIPS 201 credentials using contact interface. Authentication driven from pivCLASS Authentication Module (M2000). Additionally reads SIO on iCLASS SE, iCLASS SR, SE for MIFARE Classic and SE for MIFARE DESFire EV1 over contactless interface. If "with Prox" version, the reader also reads 125 kHz HID Prox, AWID, Indala (ASP10022), EM4102 over contactless interface. LED / beeper behavior is driven from M2000. To order non-default configuration options, use the [iCLASS SE Configuration Worksheet](#).

## Readers for FIPS 201 – CAK/CHUID Authentication - Controlled Areas

Order individual readers for contactless CAK / CHUID authentication using the part numbers on this page. To perform CAK / CHUID authentication, each reader must be hooked up to an individual reader port on a pivCLASS Authentication Module.

Description	Part Number									
	Base Part No.	125 kHz Prox Interpreters <sup>1</sup>	13.56 MHz Interpreters	Controller Communication	Controller Hardware Connection	Product Version	Color	Security <sup>2</sup>	Configuration Settings <sup>3</sup>	
<p><b>pivCLASS R10-H &amp; RP10-H</b> Contactless Smart Card Reader: Finished Reader, Mini-Mullion</p> 	900	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	H = CAK/ CHUID Authentication	R = pivCLASS Protocol (Full-Duplex RS485)	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	0 = Standard-1 E = Elite	0000 = Default	
<p><b>pivCLASS R15-H &amp; RP15-H</b> Contactless Smart Card Reader: Finished Reader, Mullion</p> 	910	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	H = CAK/ CHUID Authentication	R = pivCLASS Protocol (Full-Duplex RS485)	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	0 = Standard-1 E = Elite	0000 = Default	
<p><b>pivCLASS R40-H &amp; RP40-H</b> Contactless Smart Card Reader: Finished Reader, Wall Switch</p> 	920	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	H = CAK/ CHUID Authentication	R = pivCLASS Protocol (Full-Duplex RS485)	N = Pigtail T = Terminal Strip	A	K = Black G = Gray	0 = Standard-1 E = Elite	0000 = Default	

<sup>1</sup> 125 kHz Prox Interpreters: Order P for standard format support = HID Prox, AWID, EM4102 and Indala (10022 – 26-bit). Order L for custom Indala format support = HID Prox, AWID, EM4102 and Indala (Custom – provide reader format number with order)

<sup>2</sup> iCLASS Security Options (Factory or Field Configurable):

0 = Standard Security (Version 1) Keyset – coupled with the Standard 13.56 MHz interpreter provides compatibility with iCLASS SE, iCLASS SR, standard iCLASS, SE for MIFARE Classic and SE for MIFARE DESFire EV1 credentials.


E = Elite reads only SE Elite™ credentials with unique matching keys. Works with iCLASS SE, iCLASS SR, standard iCLASS, SE for MIFARE Classic and SE for MIFARE DESFire EV1 with matching Elite keys. Line item on PO requires ICE reference number.

<sup>3</sup> Configuration Settings

CAK / CHUID authentication on FIPS 201 credentials using contactless interface. Authentication driven from pivCLASS Authentication Module (M2000). Additionally reads SIO on iCLASS SE, iCLASS SR, SE for MIFARE Classic and SE for MIFARE DESFire EV1. If “with Prox” version the reader also reads 125 kHz HID Prox, AWID, Indala (ASP10022), EM4102. LED / beeper behavior is driven from M2000. To order non-default configuration options, use the [iCLASS SE Configuration Worksheet](#).

## Readers for FIPS 201 – PIV + PIN Authentication for Limited Areas

Order individual readers for contact PIV + PIN authentication using the part numbers on this page. To perform PIV + PIN authentication, each reader must be hooked up to an individual reader port on a pivCLASS Authentication Module.

Description		Part Number								
		Base Part No.	125 kHz Prox Interpreters <sup>1</sup>	13.56 MHz Interpreters	Controller Communication	Controller Hardware Connection	Product Version	Color	Security <sup>3</sup>	Configuration Settings <sup>4</sup>
<b>pivCLASS RKCL40-P &amp; RPKCL40-P</b> Contactless and Contact Smart Card Reader: Finished Reader, Wall Switch Keypad & LCD US Double-Gang Size		923	N = Without Prox P = With Prox (Std) L = With Prox (Custom)	P = PIV + PIN Authentication	R = pivCLASS Protocol (Full-Duplex RS485)	N = Pigtail T = Terminal Strip	A	K = Black	0 = Standard-1 E = Elite	0000 = Default

<sup>1</sup> 125 kHz Prox Interpreters: Order P for standard format support = HID Prox, AWID, EM4102 and Indala (10022 – 26-bit). Order L for custom Indala format support = HID Prox, AWID, EM4102 and Indala (Custom – provide reader format number with order)

<sup>2</sup> iCLASS Security Options (Factory or Field Configurable):

0 = Standard Security (Version 1) Keypad – coupled with the Standard 13.56 MHz interpreter provides compatibility with iCLASS SE, iCLASS SR, standard iCLASS, SE for MIFARE Classic and SE for MIFARE DESFire EV1 credentials.


E = Elite reads only SE Elite™ credentials with unique matching keys. Works with iCLASS SE, iCLASS SR, standard iCLASS, SE for MIFARE Classic and SE for MIFARE DESFire EV1 with matching Elite keys. Line item on PO requires ICE reference number.

<sup>3</sup> Configuration Settings

PIV + PIN authentication on FIPS 201 credentials using contact interface. Authentication driven from pivCLASS Authentication Module (M2000). Additionally reads SIO on iCLASS SE, iCLASS SR, SE for MIFARE Classic and SE for MIFARE DESFire EV1 over contactless interface. If “with Prox” version the reader also reads 125 kHz HID Prox, AWID, Indala (ASP10022), EM4102 over contactless interface. LED / beeper behavior is driven from M2000. To order non-default configuration options, use the [iCLASS SE Configuration Worksheet](#).

## pivCLASS Authentication Module (PAM)


Order individual pivCLASS Authentication Modules using the part numbers on this page. The PAM supports up to two (2) pivCLASS readers to support CAK, CHUID or PIV + PIN authentication. Additionally purchase a standard maintenance and support package for each PAM purchased. First year maintenance and support purchase is mandatory with every PAM.

Description		Part Number			
		Base Part No.	Product Version	Packaging	Configuration Settings
<p><b>pivCLASS Authentication Module</b> Model: M2000 Authentication module hardware and firmware and installation manuals.</p> 	91000	A	B = Plastic Enclosure Backplate & Cover N = No enclosure (board only)	NNN = Default	

Description	Part Number
<p><b>pivCLASS Authentication Module Standard Maintenance &amp; Support</b> One year support for one (1) authentication module with the first year mandatory.</p>	PCAMM4
<p><b>pivCLASS Authentication Module Maintenance &amp; Support Reinstatement fee per unit</b></p>	PCAMM4R

## Validation Server

Order the pivCLASS Validation Server using the part numbers found on this page. Each Validation Server supports up to 100,000 cardholders and 256 pivCLASS Authentication Modules. Additionally, purchase a standard maintenance and support package for each pivCLASS Authentication Module purchased. First year maintenance and support purchase is mandatory with every pivCLASS Authentication Module.

Description		Part Number
<p><b>pivCLASS Validation Server</b> Includes pivCLASS Management Station, Validation Server, Path Builder SerVE and Enroller software and supporting documentation.</p>		PCVSL
<p><b>pivCLASS Validation Server Standard Maintenance &amp; Support</b> One year support for one (1) validation server. First year mandatory. 8x5 Central M-F.</p>		PCVSM4
<p><b>pivCLASS Validation Server Software Maintenance &amp; Support Reinstatement</b> Per server installation</p>		PCVSM4R



## Evaluation Kits & Credential Testing Aides

Order evaluation kits using part numbers on this page. Evaluation kits provide all parts necessary to setup and evaluate a mini-pivCLASS system.

### Evaluation Kits

Description	Part Number
<b>Evaluation Kit for CAK / CHUID Authentication</b> Includes 1 x pivCLASS R40-H reader, 1 x pivCLASS Authentication Module & SD card, 1 x EDGE Solo single-door stand-alone access control system, OMNIKEY 3021 PC contact card reader, USB memory stick containing documentation and software, PIV test card kit, legacy test card kit containing iCLASS & HID Prox cards and documentation.	D91920ANN
<b>Evaluation Kit for PIV + PIN Authentication</b> Includes 1 x pivCLASS RPKCL40-P reader, 1 x pivCLASS Authentication Module & SD card, 1 x EDGE Solo single-door stand-alone access control system, OMNIKEY 3021 PC contact card reader, USB memory stick containing documentation and software, PIV test card kit, legacy test card kit containing iCLASS & HID Prox cards and documentation.	D91923ANN

### Credential Testing Aides

Description	Part Number
<b>PIV Test Card kit</b> Includes 3 cards – 2 of which are “golden” cards with no errors and the remaining 1 has been revoked. The package also includes CA certificates the associated CRL. (note – this part is included in the evaluation kit – order this part as an additional or replacement).	01-0032-01
<b>Legacy Test Card kit containing iCLASS &amp; HID Prox cards</b> Includes 1 x standard iCLASS card and 1 x HID Prox card. (note – this part is included in the evaluation kit – order this part as an additional or replacement).	6712-311-01

### API Developer Tool Kit

Description	Part Number
<b>pivCLASS API Developer's Tool Kit.</b> Includes: pivCLASS Validation Service API Reference Manual, Software reference implementation, source code and SOAP message examples, ActivIdentity ActivClient and ActivClient extension package.	D91923ANN-DTK
<b>Evaluation Kit for PIV + PIN Authentication</b> Includes 1 x pivCLASS RPKCL40-P reader, 1 x pivCLASS Authentication Module & SD card, 1 x EDGE Solo single-door stand-alone access control system, OMNIKEY 3021 PC contact card reader, USB memory stick containing documentation and software, PIV test card kit, legacy test card kit containing iCLASS & HID Prox cards and documentation.	



## Certification Training Course

Sign-up for pivCLASS certification training using part numbers on this page. Only certified resellers are authorized to sell pivCLASS. Use this training course to become a certified reseller.

Description	Part Number
<p><b>pivCLASS Certification Training and Materials – HID Facility</b>                      Three day training session leading to pivCLASS certification performed at the HID Facility.</p> <p>Includes course and materials. Does not include travel expenses.</p>	6712-914
<p><b>pivCLASS Certification Training and Materials – Customer Facility</b>                      Three day training session for up to 10 people leading to pivCLASS certification performed at the Customers facility.</p> <p>Includes course and materials. Does not include travel expenses.</p>	6712-915
<p><b>pivCLASS Certification Training and Materials - Customer Facility</b>                      Includes cost associated with Travel and Expenses for training at the Customer's Facility.</p>	PIV-TRAIN-xxxx



## Reader Programming Cards

For customer factory and field reader configuration, including security downgrades for standard iCLASS Access Control Application compatibility to beeper / LED settings...

### Reader Configuration

Description	Part Number						
	Base Part No.	125 kHz Interpreters	13.56 MHz Interpreters	Controller Communication	Product Revision	Security <sup>3</sup>	Configuration Settings <sup>1</sup>
<b>General Ordering</b>							
<b>Reader Programming Cards – Configuration</b> Modify reader configuration using a card.	SEC9X	XX = No Change		X = No Change N = Wiegand C = Clock-and-Data	A	0 = Std 1 or 2 E = Elite	XXXX = No Change 0000 = Reset to Defaults
		N = Without Prox P = With Prox (Std) L = With Prox (Custom)	N = SIO T = Standard F = FIPS FASCN				
<b>Popular Configuration Cards</b>							
<b>Reset Beeper / LED, Keypad and IPM to Factory Defaults</b> Reset reader settings to factory defaults	SEC9X	X = No Change	X = No Change	X = No Change	A	0 = Std 1 or 2 E = Elite	0000

<sup>1</sup> Configuration Settings

Default configuration includes: Reads SIO on iCLASS SE, MIFARE Classic SE and DESFire EV1 SE + LED normally Red + Reader beeps / flashes LED green on card read + Intelligent Power Management = Off + Keypad Output is 4-bit (if keypad reader) + (if "With Prox" aka multiCLASS) reads 125 kHz HID Prox, AWID, Indala (ASP10022), EM4102. To order non-default configuration options, use the [iCLASS SE Configuration Worksheet](#).

### Reader Firmware

For updating firmware using cards in the field...

Description	Part Number				
	Base Part No.	Hardware Modifiers	125 kHz Interpreters	13.56 Interpreters	Product Revision
<b>Programming Cards – Firmware</b>  <b>Firmware Update Cards</b> Update reader interpreters and other functionality to the latest build utilizing these firmware update cards.	SEF9	0 = Non-Keypad 1 = Keypad	N = Without Prox P = With Prox	N = Standard	ANN

## Accessories

Part No.	Description
Mounting Plates, Spacers, Screws and Accessory Kits	
6303-104-01	R10 (or equivalent sized model) Mini-Mullion Reader Mounting Plate, Any Color
6309-103-01	R15 (or equivalent sized model) Mullion Reader Mounting Plate, Any Color
6403-109-01	R40 (or equivalent sized model) Wall Switch Reader Mounting Plate, Any Color
6132AKB	R10 (or equivalent sized model) Reader Spacer, Black
6132AGB	R10 (or equivalent sized model) Reader Spacer, Gray
6132AKC	R15 (or equivalent sized model) Reader Spacer, Black
6132AGC	R15 (or equivalent sized model) Reader Spacer, Gray
6132AKE	R40 (or equivalent sized model) Reader Spacer, Black
6132AGE	R40 (or equivalent sized model) Reader Spacer, Gray
400-2D71-06	Security Screw
6714-306-04	Reader Accessory Kit (includes terminal blocks and screws for reader with side car)