pivCLASS®

How to Order Guide
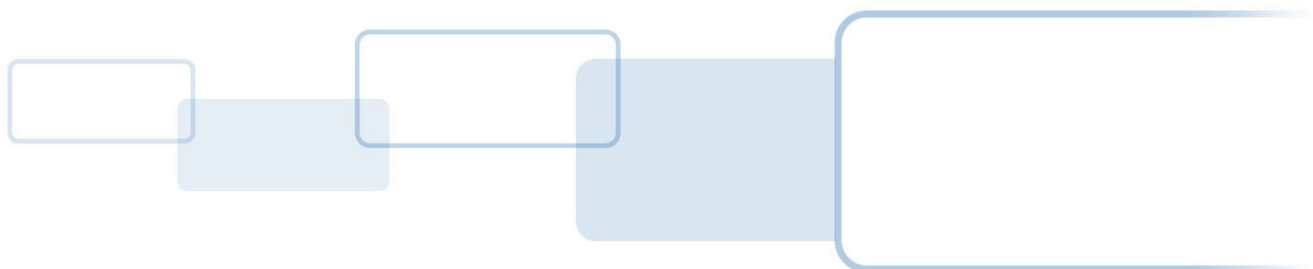
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Revision History

Date	Description	Revision
June 2020	Added new sections for *pivCLASS PAM and Reader Bundles* and *pivCLASS Embedded Authentication Reader Bundles*. Updated *Maintenance and Support* information throughout.	B.0
July 2019	Updated for per pivCLASS 5.6 & 5.7 release. New Feenics plugin, updated version of PAM. Corrected reader part numbers.	A.9
March 2018	Corrected part numbers, added versions to plug-in section, simplified reader section.	A.8
June 2016	Added pivCLASS Strong Authentication OSDP readers - LCD Contact.	A.7
February 2016	Updated bundled part number.	A.6
February 2016	New MS part number for "Bundles", added certification training required for Validation Workstation, fixed MultiPACS connector part number error, deleted Datastrip handheld reader page, added workstation to Certificate Training page, removed Evaluation Kits.	A.5
October 2015	New supplemental info page, added biometric bundle, removed R15 and RP15 readers (no longer sold), removed discontinued color offerings, deleted PIV Audit Card kit (superseded by NIST test cards), PAM purchase now includes Reader Services component.	A.4

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Contents

Introduction

The HID Global® pivCLASS® solutions portfolio is an extensive product family designed to support authentication of FIPS 201 compliant smart cards such as PIV, PIV-I, CIV, CAC, FRAC, and TWIC in both government and non-government environments. Using FIPS 201 compliant cards for physical access control results in interoperability, high security and compliance with government regulations where required.

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.

Reseller Certification

You must be a pivCLASS certified reseller to order any pivCLASS solution components except pivCLASS readers. Achieve certification when a minimum of two staff members successfully completing the pivCLASS training program. The pivCLASS Certified Reseller is expected to be able to support their end customers for issues around pivCLASS and if it is beyond the Certified Resellers' capability to support, then the Certified Reseller will work with HID pivCLASS Technical Support on the issue.

Reader Configuration Choices

pivCLASS readers can be ordered to support three different modes of operation:

Wiegand: In Wiegand mode, the reader reads the CHUID data container and reports the FASC-N or UUID from the card and passes this data directly to the door controller or panel over a Wiegand interface. Configure the FASC-N output to provide various output formats including 64 bit BDC, 75 bit GSA, 128 bit reversed BCD and 200 bit full FASC-N. The UUID output is always 128 bits. Custom output formats are available, but some of these may not be supported in PAM mode. In Wiegand mode, no authentication is performed. This mode is provided only to enable a phased implementation approach. If the end state is to use a PAM, select full-duplex (FDX) RS-485 communication protocol. For all other end states select half-duplex (HDX).

Re-configuration between PAM and Wiegand, or OSDP and Wiegand can be changed in the field; However, a FDX (PAM or Wiegand) reader can not be changed to a HDX (OSDP or Wiegand). For example, use the following two-step process to reconfigure from Wiegand to PAM mode:

- Connect the reader to the PAM.
- Reconfigure the reader to PAM mode using a pivCLASS Reader Programming Card.

PAM: in this mode the reader is connected to a pivCLASS Authentication Module (PAM) using RS485 full-duplex (FDX) communication protocol. This mode supports CHUID, CAK (Card Authentication Key), PIV+PIN, PIV+PIN+BIO authentication and others, as defined in FIPS 201 and TWIC authentication modes such as CHUID + BIO and CAK + Bio. Exact capabilities supported will be determined by reader type (contactless, contact or biometric).

HDX OSDP: in this mode the reader is connected directly to a panel or intelligent controller that supports RS485 half-duplex (HDX) and OSDP. If using OSDP without pivCLASS Embedded Authentication, the capabilities are the same as a Wiegand reader and will only report applicable CHUID data as configured in the reader. If the controller is using pivCLASS Embedded Authentication, then all of the same authentication modes as the PAM are supported.

Reader Part Number Configuration Aides

In addition to this document, HID Global provides an online tool, the pivCLASS Configuration Guide, for determining the part number for various pivCLASS readers. To access this tool, go to **http://www.hidglobal.com/node/19914**, open with Excel, and click **SELECT** to make a selection from the available pivCLASS readers.

pivCLASS Readers – FDX; Wiegand or PAM Mode

Order these readers if currently, or in the future, connecting the pivCLASS reader directly to a PAM. Use of the online **pivCLASS Configuration Guide** if you need further guidance on part numbers. You do not need to be pivCLASS certified to resell pivCLASS readers.

*Configuration settings below are PAM mode readers, please refer to configuration guide for Wiegand variants.

Description	Part Number								
	Base Part No.	125 kHz Option[1]	13.56 MHz	Controller Communication[2]	Controller Connection	Version	Color	Keyset[3]	Configuration Setting*
pivCLASS R10 & RP10 Mini-Mullion Contactless Reader.	900	N = Without Prox	H (contactless)	R = RS485 FDX	N = Pigtail T = Terminal Strip	E	K = Black	0 = Standard E = Elite	If No Prox = 032Y If Prox = 0007
pivCLASS R40 & RP40® Wall Switch Contactless Reader.	920	P = With Prox							
pivCLASS RK40 & RPK40® Wall Switch Contactless Keypad Reader Keypad.	921	N = Without Prox P = With Prox	H (contactless)	R = RS485 FDX	N = Pigtail T = Terminal Strip	E	K = Black	0 = Standard E = Elite	If No Prox = 033A If Prox = 033B
pivCLASS RKCL40 & RPKCL40 Wall Switch Contact/ Contactless Keypad Reader with LCD display.	923	N = Without Prox P = With Prox	P (contact + contactless)	R = RS485 FDX	N = Pigtail T = Terminal Strip	E	K = Black	0 = Standard E = Elite	If No Prox = 032V If Prox = 000B
pivCLASS RKCLB40 Wall Switch Contact/ Contactless Keypad Reader with LCD display and biometric sensor.	924	N = Without Prox	P (contact + contactless)	R = RS485 FDX	N = Pigtail T = Terminal Strip	E	K = Black	0 = Standard E = Elite	0504

[1] **125 kHz Prox Interpreters**
 Order P for HID® Prox, AWID, EM4102.
 All pivCLASS readers support high frequency 13.56 MHz technology.

[2] **Controller Communication**
 Full duplex (FDX) is required when connecting a pivCLASS reader to a PAM.

[3] **iCLASS® Keyset Options (Factory or Field Configurable)**
 0 = Standard Security (Version 1) Keyset – compatible 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 – compatible 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.

pivCLASS Readers – HDX; Wiegand or OSDP

If you are connecting the pivCLASS reader directly to a panel or intelligent controller for use with either Wiegand, Half Duplex (HDX) OSDP, or strong authentication over OSDP use this page to construct the appropriate part number. Obtaining individual pivCLASS reader part numbers requires the use of the online **pivCLASS Configuration Guide**. You do not need to be pivCLASS certified to resell pivCLASS readers.

*Configuration settings below are for OSDP V2 reader with 200bit FIPS output mode readers, please refer to configuration guide for Wiegand or other variants.

Description	Part Number								
	Base Part No.	125 kHz Option[1]	13.56 MHz	Controller Communication[2]	Controller Connection	Version	Color	Keyset[3]	Configuration Setting[4]
pivCLASS R10 & RP10 Mini-Mullion Contactless Reader.	900	N = Without Prox P = With Prox	H (contactless)	P = RS485 HDX OSDP	N = Pigtail T = Terminal Strip	E	K = Black	O = Standard E = Elite	If No Prox = 00UF If Prox = 00UH
pivCLASS R40 & RP40 Wall Switch Contactless Reader.	920								If No Prox = 00P1 If Prox = 00P2
pivCLASS RK40 & RPK40 Wall Switch Contactless Keypad Reader Keypad.	921								If No Prox = 00UG If Prox = 00UE
pivCLASS RKCL40 & RPKCL40 Wall Switch Contact/ Contactless Keypad Reader with LCD display**.**	923	N = Without Prox P = With Prox	P (contact + contactless)	P = RS485 HDX OSDP	N = Pigtail T = Terminal Strip	E	K = Black	O = Standard E = Elite	If No Prox = 00P3 If Prox = 00P4

[1] **25 kHz Prox Interpreters**

Order P for HID Prox, AWID, EM4102.

All pivCLASS readers support high frequency 13.56 MHz technology.

[2] **Controller Communication**

P = Supports either Wiegand or half- duplex (HDX) RS485 with OSDP. Reconfigurable in field from Wiegand to HDX RS485 using a programming card. HDX is not supported by PAM.

[3] **iCLASS Keyset Options (Factory or Field Configurable)**

0 = Standard Security (Version 1) Keyset – compatible 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 – compatible 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.

Note: Part numbers referenced are active for Standard Key, but may not be active for Elite. Please reach out to your RSM if you require an Elite version.

[4] **Configuration Setting**

Identifies all firmware configurations including Wiegand mode output settings and audio/visual settings (for example, default settings: buzzer on, LED normally red, flashes green on read, buffer one key, no parity, 4 bit message), OSDP uses default settings of panel control for all audio/visual. For use on OSDP panels using strong authentication, select OSDP V2 compliant readers. Use the pivCLASS Configuration Guide located at **http://www.hidglobal.com/node/19914** to "SELECT" from the available pivCLASS readers the specific configuration setting. Settings shown are for OSDP V2 reader with 200bit FIPS output mode readers, please refer to configuration guide for Wiegand or other variants

pivCLASS PAM and Reader Bundles

Bundles consist of two (2) pivCLASS readers and one (1) pivCLASS Authentication Module (PAM). Certification via pivCLASS Authentication Module training is required to resell these bundles. See *Certification Training* on page 19. First year maintenance is included with purchase.

Include supplemental information for ordering this product. See *pivCLASS Supplemental Ordering Information* on page 23.

Description		Part Number								
		Base Part No.	125 kHz Option	13.56 MHz	Controller Communication	Controller Connection	Version	Color	Keyset	Configuration Setting
pivCLASS R40 OR pivCLASS RP40 Contactless Smart Card Reader: Finished Reader, Wall Switch.	**pivCLASS Authentication Module (Model: M2000)** Authentication module hardware, firmware and installation guides. Includes PAM with plastic enclosure & mounting plate.	B920	N / P	H	R	N / T	E	K	O	If No Prox = 032Y If Prox = 0007
pivCLASS RKCL40 OR pivCLASS RPKCL40 Contactless and Contact Smart Card Reader: Finished Reader, Wall Switch, Key Pad, LCD US Double-Gang Size.	**pivCLASS Authentication Module** (Model: M2000) Authentication module hardware, firmware and installation guides. Includes PAM with plastic enclosure and mounting plate.	B923	N / P	P	R	N / T	E	K	O	If No Prox = 032V If Prox = 000B
pivCLASS RKCLB40 Contactless and Contact Smart Card Reader: Finished Reader, Wall Switch, Key Pad, LCD and biometric sensor. US Double-Gang Size.	**pivCLASS Authentication Module** (Model: M2000) Authentication module hardware, firmware and installation guides. Includes PAM with plastic enclosure and mounting plate.	B924	N	P	R	N / T	E	K	O	0504

125 kHz Option   N = Without Prox; P = Support of HID Prox, AWID and EM4102 (32 bit).

13.56 MHz   H = contactless only; P = contactless and contact.

Controller Communication   R = Full duplex (FDX) RS485; required when connecting to a PAM.

Controller Connection   N = Pigtail (18"); T = Terminal strip.

Color   K = Black

Keyset   O = Standard Security (Version 1) Keyset – compatible 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.

"Bundles" Maintenance and Support

Description	Part Number
PAM Firmware Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F. Includes M&S for pivCLASS Reader Services component.	91000-MS

pivCLASS Embedded Authentication Reader Bundles

Bundles consist of two (2) pivCLASS readers and two licenses for their connection to pivCLASS Embedded Authentication. Certification via pivCLASS Authentication Module training is required to resell these bundles. See *Certification Training* on page 19. First year maintenance is included with purchase.

Include supplemental information for ordering this product. See *pivCLASS Supplemental Ordering Information* on page 23.

Description	Part Number								
	Base Part No.	125 kHz Option	13.56 MHz	Controller Communication	Controller Connection	Version	Color	Keyset	Configuration Setting
pivCLASS R40 OR pivCLASS RP40 Contactless Smart Card Reader: Finished Reader, Wall Switch.	E920	N / P	H	P	N / T	E	K	O	If No Prox = 00P1 If Prox = 00P2
pivCLASS RKCL40 OR pivCLASS RPKCL40 Contactless and Contact Smart Card Reader: Finished Reader, Wall Switch, Key Pad, LCD US Double-Gang Size.	E923	N / P	P	P	N / T	E	K	O	If No Prox = 00P3 If Prox = 00P4

125 kHz Option	N = Without Prox; P = Support of HID Prox, AWID and EM4102 (32 bit).
13.56 MHz	H = contactless only; P = contactless and contact.
Controller Communication	P = Half Duplex (HDX) RS485, required when connecting to pivCLASS Embedded Authentication.
Controller Connection	N = Pigtail (18"); T = Terminal strip.
Color	K = Black
Keyset	O = Standard Security (Version 1) Keyset – compatible 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.

"Bundles" Maintenance and Support

Description	Part Number
PAM Firmware Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F. Includes M&S for pivCLASS Embedded Authentication Reader connection component.	E91000-MS

Validation Workstation

The pivCLASS Validation Workstation verifies TWIC, PIV, PIV-I, CIV, FRAC and CAC cards. It also verifies the cardholder's PIN using the card's contact interface. Validation Workstation matches the cardholder's stored biometric against a live sample and validates the card's digital certificate chain using OCSP or SCVP protocols. For TWIC cards, Validation Workstation queries the TWIC Canceled Card List (CCL) to determine revocation status. All FIPS 201 credentials are authenticated using PKI-AUTH or PKI-CAK protocols. pivCLASS Software Training is required to resell these products. See *Certification Training* on page 19. First year maintenance is included with purchase.

Validation Workstation does not provide any PACS interoperability.

Include supplemental information for ordering this product. See *pivCLASS Supplemental Ordering Information* on page 23.

Description	Part Number
pivCLASS Validation Workstation Only includes pivCLASS Validation Workstation software and documentation. PACS interoperability not included. Requires a USB contact reader (OMNIKEY® 5422 recommended) and optional biometric sensor. See *USB Readers & Credential Testing Aides* on page 18.	PVC-D/S
pivCLASS Validation Workstation Audit Trail Option Includes Audit Trail software. Does not include any additional PACS interoperability.	PVCAT-D

Note: The Validation Workstation requires a USB Smart Card reader, such as the OMNIKEY 5422 and optionally a USB fingerprint sensor[1].

Maintenance and Support

Description	Part Number
pivCLASS Validation Workstation Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-D/S-MS
pivCLASS Validation Workstation Audit Trail Option Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVCAT-D-MS

[1] Reference the Registration Engine data sheet for supported USB fingerprint sensors. Validation Workstation

Registration Engine and Certificate Manager

The Registration Engine includes all the functionality of the Validation Workstation and the ability to interoperate with a PACS head-end collecting card information (such as name, FASC-N or UUID, expiration date and photo) and creating a card holder record in a PACS. The Certificate Manager provides the capability to revalidate registered cardholders on an ongoing basis. If a cardholder's certificate is invalid or revoked, Certificate Manager can automatically suspend the card in the PACS and send an email to a distribution list for notification. pivCLASS Software Training is required to resell these products. See *Certification Training* on page 19. First year maintenance and support is included with purchase.

Include supplemental information for ordering this product. See *pivCLASS Supplemental Ordering Information* on page 23.

Description	Part Number	
	Base Part No.	PACS ID
pivCLASS Registration Engine Includes software that interfaces with one (1) specific PACS and supporting documentation. One license per workstation. Requires a USB contact reader (OMNIKEY 5422 recommended) and optional USB biometric sensor. See *USB Readers & Credential Testing Aides* on page 18.	PVCP-D/S-	XX-YY[1]
pivCLASS PACS Plugin Change Use this part number to change your pivCLASS PACS Plugin license from one PACS headend vendor product to another. Maintenance & Support for this plugin is provided as part of the pivCLASS Registration Engine M&S.	PVCP-D/S-CPLG-	XX-YY[1]
pivCLASS Certificate Manager Includes software only. One license per PACS. Second license required for redundant PACS if present.	PVC-CM	N/A
pivCLASS Certificate Manager – Redundant Copy For use as hot-spare redundancy. Includes software and supporting documentation.	PVC-CM-REDNT	N/A

Note: The registration engine requires a USB Smart Card reader such as the OMNIKEY 5422 and optionally a USB fingerprint sensor. Reference data sheet for supported USB fingerprint sensors.

Maintenance and Support

Description	Part Number
pivCLASS Registration Engine Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVCP-D/S-MS
pivCLASS Certificate Manager Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-CM-MS
pivCLASS Certificate Manager Standard Maintenance & Support – Redundant Copy One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-CM-REDNT-MS

[1] To determine the identifiers for entry, see *pivCLASS PACS Plug-in & Connector Information* on page 19.

- XX = PACS Product ID
- YY = PACS Version ID

Reader Services

Reader Services provides the interface to manage and control readers and authentication modules such as the PAM. For certification training, see *Certification Training* on page 19. First year maintenance is included with purchase.

Include supplemental information for ordering this product. See *pivCLASS Supplemental Ordering Information* on page 23.

Description	Part Number
pivCLASS Reader Services Includes software and supporting documentation. Reader Services is included in the purchase of a PAM. If used without a PAM, one copy per reader is required.	PVC-FXRDR
pivCLASS Reader Services – Redundant Copy For use as hot-spare redundancy. Includes software and supporting documentation.	PVC-FXRDR-REDNT
pivCLASS Embedded Authentication License Two licenses for connecting readers to pivCLASS Embedded Authentication	EA-LICENSE2

Maintenance and Support

Description	Part Number
pivCLASS Reader Services Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-FXRDR-MS
pivCLASS Reader Services Standard Maintenance & Support – Redundant Copy One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-FXRDR-REDNT-MS
pivCLASS Embedded Authentication Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	E91000-MS

pivCLASS Authentication Module (PAM)

Order the pivCLASS Authentication Module using the following part numbers. The PAM supports up to two (2) pivCLASS readers. Purchase includes the pivCLASS Reader Services component required for operation. Certification via pivCLASS Authentication Module training is required to resell this component. See *Certification Training* on page 19. First year maintenance is included with purchase.

Include supplemental information for ordering this product. See *pivCLASS Supplemental Ordering Information* on page 23.

Description		Part Number			
		Base Part Number	Product Version	Packaging	Configuration Settings
pivCLASS Authentication Module Model: M2000 Authentication module hardware, firmware and installation manuals. Includes pivCLASS Reader Services component.		91000	B	B = Plastic Enclosure Back plate & Cover N = No enclosure (board only)	NNN = Default

Maintenance and Support

Description	Part Number
PAM Firmware Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F. Includes M&S for pivCLASS Reader Services component.	91000-MS

pivCLASS IDPublisher

This web service product enables the provisioning and de-provisioning of credentials from an IDMS, CMS or HR data base into a PACS. Certification via pivCLASS Software training is required to resell these products. See *Certification Training* on page 19. First year maintenance is included with purchase.

Include supplemental information for ordering this product. See *pivCLASS Supplemental Ordering Information* on page 23.

Description	Part Number
pivCLASS IDPublisher 500 500 badge capacity.	PVC-IDPUB500[1]
pivCLASS IDPublisher 1000 1000 badge capacity.	PVC-IDPUB1000[1]
pivCLASS IDPublisher UNL Unlimited badge capacity.	PVC-IDPUBUNL[1]
pivCLASS IDPublisher 500 – Redundant Copy For use as hot-spare redundancy. Includes software and supporting documentation.	PVC-IDPUB500-REDNT[1]
pivCLASS IDPublisher 1000 – Redundant Copy For use as hot-spare redundancy. Includes software and supporting documentation.	PVC-IDPUB1000-REDNT[1]
pivCLASS IDPublisher UNL – Redundant Copy For use as hot-spare redundancy. Includes software and supporting documentation.	PVC-IDPUBUNL-REDNT[1]

[1] When ordering a pivCLASS IDPublisher option, you may be requested to also supply a supplemental part number to identify the Plug-in needed. This will be in the form of PACS-SVC-xx-yy. To determine the identifiers for entry, see *pivCLASS PACS Plug-in & Connector Information* on page 22.

- XX = PACS Product ID
- YY = PACS Version ID

Maintenance and Support

Description	Part Number
pivCLASS IDPublisher 500 Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-IDPUB500-MS
pivCLASS IDPublisher 1000 Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-IDPUB1000-MS
pivCLASS IDPublisher UNL Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-IDPUBUNL-MS
pivCLASS IDPublisher 500 Standard Maintenance & Support – Redundant Copy One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-IDPUB500-REDNT-MS
pivCLASS IDPublisher 1000 Standard Maintenance & Support – Redundant Copy One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-IDPUB1000- REDNT-MS
pivCLASS IDPublisher UNL Standard Maintenance & Support – Redundant Copy One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-IDPUBUNL- REDNT-MS

pivCLASS MultiPACS

MultiPACS allows for the simultaneous provisioning and de-provisioning of identity and credential records into multiple and disparate physical access control systems (PACS). The MultiPACS system supports multiple Registration Engines, pivCLASS Mobile with PACS Registration Engines and IDPublishers or any combination. It consists of multiple components, including a MultiPACS Console and one MultiPACS Connector for each PACS head-end serviced. It also requires a Certificate Manager (sold separately). Certification via pivCLASS Software training is required to resell these products. See Certification Training on page 19. First year maintenance is included with purchase.
Include supplemental information for ordering this product.

See *pivCLASS Supplemental Ordering Information* on page 23.

Description	Part Number	
	Base Part Number	PACS ID
pivCLASS MultiPACS Console Provides management interface to the system.	PVC-MPX-CNSL	N/A
pivCLASS MultiPACS Console – Redundant Copy For use as hot-spare redundancy. Includes software and supporting documentation.	PVC-MPX-CNSL-REDNT	N/A
pivCLASS MultiPACS Connector A PACS specific connector is required for each separate PACS being serviced that isn't already associated with a pivCLASS Registration Engine or pivCLASS IDPublisher.	PVC-MPX-CNX-	XX-YY[1]
pivCLASS MultiPACS Connector – Redundant Copy For use as hot-spare redundancy. Includes software and supporting documentation.	PVC-MPX-CNX-REDNT	N/A

Maintenance and Support

Description	Part Number
pivCLASS MultiPACS Console Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-MPX-CNSL-MS
pivCLASS MultiPACS Console Standard Maintenance & Support – Redundant Copy One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-MPX-CNSL-REDNT-MS
pivCLASS MultiPACS Connector Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-MPX-CNX-MS
pivCLASS MultiPACS Connector Standard Maintenance & Support – Redundant Copy One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-MPX-CNX-REDNT-MS

[1] To determine the identifiers for entry, see *pivCLASS PACS Plug-in & Connector Information* on page 22.

- XX = PACS Product ID
- YY = PACS Version ID

pivCLASS Mobile Validation Software

The pivCLASS mobile validation software products are designed to run on the various supported mobile handheld readers listed in this HTOG. These readers are purchased separately. Certification via pivCLASS Software training is required to resell these products. See Certification Training on page 19 .First year maintenance and support is included with purchase.

pivCLASS Mobile Validator is a handheld software application that verifies PIV, PIV-I, CIV, TWIC, FRAC, CAC and other[1] credentials over a mobile handheld reader's contact or contactless interface. Provides full validation including path validation and revocation status checking. Does not include PACS registration functionality.

pivCLASS Mobile Registration Engine software provides all the functionality of the Mobile Validator plus the functionality to register FIPS 201 credentials into a PACS. Includes PACS Plug-in to provide PACS interoperability.

Include supplemental information when ordering this product. See *pivCLASS Supplemental Ordering Information* on page 23.

Description	Part Number	
	Base Part Number	PACS ID
pivCLASS Mobile Validator Includes software and supporting documentation. Does not include the mobile reader.	OMNP-SW	N/A
pivCLASS Mobile Registration Engine Includes software and supporting documentation. Does not include the mobile reader.	OMNPR-SW-	XX-YY[2]

Maintenance and Support

Description	Part Number
pivCLASS Mobile Validator Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	OMNP-MS
pivCLASS Mobile Registration Engine Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	OMNPR-MS

[1] Verification of other non-FIPS 201 cards such as MIFARE DESFire and Prox requires the pivCLASS Data Import software and compatible handheld reader.

[2] To determine the identifiers for entry, see *pivCLASS PACS Plug-in & Connector Information* on page 22.

- X = PACS Product ID
- YY = PACS Version ID

pivCLASS Data Import

pivCLASS Data Import is a software application that keeps the pivCLASS PACS Service credential database synchronized with the head-end PACS database. When Data Import detects a change in the PACS database it updates the pivCLASS PACS Service credential database accordingly. These updates are then pushed out to mobile devices on demand or in batch during the next mobile device data synchronization. Data Import can be thought of as retrieving cardholder data from the PACS database versus pushing cardholder data to the PACS database as is done during registration. Data Import can be used to download any supported card type to the handhelds, e.g., FIPS 201, HID® proximity, HID iCLASS, DESFire, etc. Please ensure that the handheld selected has the appropriate card reader. Certification via pivCLASS Software training is required to resell these products. See *Certification Training* on page 19. First year maintenance and support is included with purchase.

PACS products supported by Data Import are listed in the *pivCLASS PACS Plug-in & Connector Information* on page 22.

Include supplemental information when ordering this product. See *pivCLASS Supplemental Ordering Information* on page 23.

Description	Part Number
pivCLASS Data Import Includes software and supporting documentation.	PVC-DTAIMP-XX-YY[1]
pivCLASS Data Import – Redundant Copy For use as hot-spare redundancy. Includes software and supporting documentation.	PVC-DTAIMP-REDNT-XX-YY[1]

Maintenance and Support

Description	Part Number
pivCLASS Data Import Standard Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-DTAIMP-MS
ppivCLASS Data Import Standard Maintenance & Support – Redundant Copy One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-DTAIMP-REDNT-MS

[1] To determine the identifiers for entry, see *pivCLASS PACS Plug-in & Connector Information* on page 19.

Note: Not all PACS head-end products are supported.

- XX = PACS Product ID
- YY = PACS Version ID

pivCLASS Software Bundles

pivCLASS BASE bundle for smaller sites that do not require the expandability of a standard pivCLASS system or need a lower entry point into HID Global's comprehensive solution for PKI validation. This bundle delivers the minimum required software and licenses for a site to start implementing the pivCLASS solution. Certification via pivCLASS Software training is required to resell these products. See Certification Training on page 19.

Bundle includes:

- 1 Certificate Manager
- 1 Registration Engine
- 8 Reader Connections (for PAM, Embedded Authentication or biometric readers)
- 1st year Maintenance & Support

Limitation of Bundle:

- Limited to 1 Registration Engine, 1 Certificate Manager, and 8 reader connections

Description	Part Number
pivCLASS BASE Bundle Includes software and supporting documentation.	PVC-BASE-XX-YY[1]

Maintenance and Support

Description	Part Number
pivCLASS Base Bundle Maintenance & Support One year renewal of standard Maintenance and Support service. 8x5 Central M-F.	PVC-BASE-MS

[1] To determine the identifiers for entry, see *pivCLASS PACS Plug-in & Connector Information* on page 22.

Note: Not all PACS head-end products are supported.

- XX = PACS Product ID
- YY = PACS Version ID

USB Readers & Credential Testing Aides

USB smart card readers and biometric sensors are used during cardholder registration to ensure that the person who is presenting the card is the person to whom it was issued. The pivCLASS products are compatible with the following devices.

USB Reader and Biometric Sensor

Description	Part Number
OMNIKEY Smart Card Reader OMNIKEY 5422 USB smart card reader. Contact reader. EMV, CCID and TAA compliant. Recommended for use with the pivCLASS Validation Workstation and the pivCLASS Registration Engine.	R54220301
Idemia Biometric Sensor Idemia MS00-1300B-P biometric sensor. USB biometric sensor for use with the pivCLASS Registration Engine during enrollment and registration. **Note:** Support and warranty through Idemia.	MSO-1300E

Credential Testing Aides

Use these test card kits to ensure that your pivCLASS components have been properly set up and to verify that your system correctly detects potential compromises as the result of altered data on the smart card.

Description	Part Number
Legacy Test Card kit containing iCLASS & HID® Prox cards 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 additional or replacement cards.	6712-311-01

Certification Training

Completion of pivCLASS Software training is required to resell any pivCLASS software or software bundles.

Completion of pivCLASS Authentication Module training is required to resell pivCLASS Authentication Modules (PAMs) and pivCLASS Bundles with panels or readers.

Completion of pivCLASS Software and pivCLASS Authentication Module training is required to purchase pivCLASS Evaluation Kits.

pivCLASS Software Training consists of an introductory PKI & FIPS online course and other modules focused on the pivCLASS software components that make up the pivCLASS solution. These include the pivCLASS Registration Engine, Certificate Manager and various pivCLASS products used to connect this software to external components such as PACS head-end platforms, Identity Management systems, Card Management Systems and Human Resource databases.

To enroll go to hidglobal.com > Services > Training > Browse Courses > Product Certifications

Description
pivCLASS Training (required for purchasing pivCLASS software)   **https://hidglobal.csod.com/LMS/LoDetails/DetailsLo.aspx?loid=298c6622-5b1a-44af-a03f-fc0bc7e96b60&query=%3fq%3dpivCLASS+Software+5.x+Certification+Training#t=1**
pivCLASS Authentication Module 5.x Certification Training (required for purchasing pivCLASS PAMs and Embedded Authentication)   **https://hidglobal.csod.com/LMS/LoDetails/DetailsLo.aspx?loid=e1788b66-7ad0-4453-9650-089033d21b4b&query=%3fq%3dpivCLASS+Authentication+Module+5.x+Certification+Training#t=1**

Reader Programming Cards

Reader programming cards are used to reconfigure a reader to a desired target configuration by using Reader Configuration Cards. Firmware Update Cards can be used to reload the reader with the latest version of firmware. Contact HID Technical Support (**https://support.hidglobal.com**) to ensure selecting the proper configuration card extension.

Reader Configuration Cards

Description	Part Number		
	Base Part Number	**iCLASS Security Keys**	**Configuration Card Extension**
Reader Mode and Output Configuration Settings Use these part numbers to order configuration cards to change reader modes (for example, Wiegand to PAM) and output formats (for example, 200 bit Wiegand). Includes reader configuration programming card and instructions	SEC9X-CRD-	0 = Standard E = Elite	-XXXX = Specific configuration[1]
Reset Beeper / LED, Keypad and IPM to Factory Defaults Use these part numbers to order configuration cards to reset reader settings to factory defaults. Includes reader configuration programming card and instructions	SEC9X-CRD-	0 = Standard E = Elite	-XXXX = Specific configuration[2]

[1] Contact your HID GLOBAL Support Representative (**https://support.hidglobal.com**) to determine your specific configuration extension.

[2] Factory Default configuration includes: LED normally red, beep on and flashes green on read card; keypad data = buffer one key, no parity, 4 bit message, Intelligent Power Management = Off; Prox reads 125 kHz HID Prox, AWID, EM4102.

Firmware Update Cards

For updating reader interpreters and other functionality to the latest firmware version over an RF interface.

Description	Part Number			
Programming Cards – Firmware	**Base Part Number**	**iCLASS Security Keys**	**Version**	**Update Card Extension**
Firmware Update Cards Includes latest version of reader firmware on a RF programming card and instructions.	SEF9X-UPG-	0 = Standard E = Elite	E = Rev E Version	-XXXX[1]

[1] Contact your HID Support Representative (**https://support.hidglobal.com**) to obtain the Firmware Update Card extension.

Reader Accessories

Part Number	Description
Mounting Plates, Spacers, Screws and Accessory Kits	
6132AKB	R10 (or equivalent size model) Reader Spacer, Black
6132AKC	R15 (or equivalent size model) Reader Spacer, Black
6132AKE	R40 (or equivalent size model) Reader Spacer, Black
6132AK	RK40 (or equivalent size model) Reader Spacer, Black
6132AKK	RKCL40 (or equivalent size model) Reader Spacer, Angle Right, Black
6132AKL	RKCL40 (or equivalent size model) Reader Spacer, Angle Left, Black
6132AKK	RKCLB40 (or equivalent size model) Reader Spacer, Angle Right, Black
6132AKL	RKCLB40 (or equivalent size model) Reader Spacer, Angle Left, Black
IP65GSKT-R10	Kit containing 10 gaskets, IP65, R10 size; highly recommended for outdoor installations
IP65GSKT-R40	Kit containing 10 gaskets, IP65, R40 size; highly recommended for outdoor installations
IP65GSKT-RK40	Kit containing 10 gaskets, IP65, RK40 size; highly recommended for outdoor installations

pivCLASS PACS Plug-in & Connector Information

Use this table to complete the Registration Engine, Multi PACS Connector, or Data Import PACS ID part number extension.

Vendor	Product Name	Vendor #	Version #	Supports PAM	Supports pivCLASS Embedded Authentication
Advantor	ASN	33	00	▪	–
AMAG	Symmetry	01	00	▪	–
Amano McGann	AmanoNet	25	00	▪	–
AMT	WebBrix	02	00	▪	–
Apollo	APACS	31	00	▪	–
Avigilon	ACM	18	00	▪	▪
Brivo	OnSite Server	03	00	▪	–
CBORD	CS Gold	30	00	▪	–
Continental Access	CA 3000	04	00	▪	–
DAQ Electronics	StarWatch SMS	29	00	▪	–
Datawatch	D3000	05	00	▪	–
DSX	WinDSX	06	00	▪	–
Feenics	Keep	34	00	–	▪
Galaxy	System Galaxy	32	00	▪	–
Gallagher	Command Centre	07	00	▪	–
Genetec	Security Center	27	00	▪	▪
Identiv-Hirsch	Velocity	08	00	▪	–
Honeywell	EBI	09	01	▪	–
Honeywell	Pro-Watch	09	02	▪	–
Identicard	PremiSys	10	00	▪	–
Johnson Controls	P2000	11	00	▪	–
Kantech	EntraPass	12	00	▪	–
LenelS2	OnGuard	14	00	▪	▪
Matrix Systems	Frontier	15	00	▪	–
MonDyn	SafeNET	26	00	▪	–
Open Options	DNA Fusion	16	00	▪	–
Quintron	AccessNsite	17	00	▪	–
ReconaSense	Access Control	35	00	–	▪
RS2 Technologies	AccessIt!	19	00	▪	▪
Sielox	Pinnacle	21	00	▪	–
Siemens	SiPass	22	00	▪	–
Software House	CCURE 800	23	01	▪	–
Software House	CCURE 9000	23	02	▪	–

Note: Plug-in functionality varies according to the capabilities of the PACS headend product. Contact your HID® Sales Representative for details.

Note: Latest versions validated against contained in plug-in connector specific manuals. These refer to latest internally validated in HID and may not represent the versions listed for FICAM or latest validated by each OEM.

pivCLASS Supplemental Ordering Information

Include the following information with your order for all pivCLASS software products including bundles and evaluation kits.

Integrator/Installer Contact Information
Company Name
Company Contact Name
Company contact email for software download instructions

End User Information
End User Company Name
End User location where product will be deployed
Access Control System used at this location
Access Control System version
Type of IDMS, CMS or HR database if IDPublisher is being ordered

For pivCLASS Software Support Renewals ONLY
Support Renewal Start Date
Support Renewal End Date