RFIDEAS

pcProx® Plus OEM Module

User Manual

Due to licensing agreements with HID Global, this product cannot be used as a door access reader.

99009170 Rev G

Introduction

The pcProx® Plus OEM module enables users to easily embed active RFID read capability into their equipment. The security, reliability, and convenience of proximity and contactless identification and access is available in a self-contained electronic module. This module allows customers to develop a wide variety of unique, customized devices that tap into the power of using existing door access cards for employee identification and authentication. The OEM module is perfect for third-party manufacturers or developers who want to integrate 125 kHz proximity or 13.56 MHz contactless technology into their standard offerings.

The pcProx Plus OEM module can be seamlessly integrated due to its capability of providing data via USB keystrokes, a Software Developer's Kit (SDK) interface, ASCII serial, or Wiegand output. The reader can be configured to add keystrokes before or after card data. As an integrated reader, it has the ability to work with a multitude of applications.

Package Contents

The following items are contained in the pcProx Plus OEM Module packaging. If you are missing an item, please contact Technical Support immediately at 866.439.4884.

- pcProx Plus OEM Module
- 1 standoff
- pcProx Plus OEM Module Manual

Connector Options

There are three connector options available with the module for data input and output.

To program Wiegand models, a USB programming cable is needed. This cable is available for purchase through RF IDeas:

Part #CAB-HPN (Connectorized)or Part #CAB-NEWPROX6-C16 (Non Connectorized).

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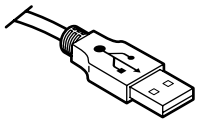
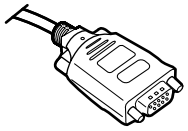
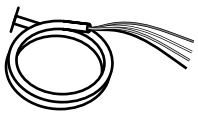
Connector Type	**Output Data Type**
USB 	USB Keystroke SDK Virtual Com Port: ASCII or SDK
DB9 	ASCII SDK
4-wire pigtail 	Wiegand

Configuration

The configuration section details the steps necessary to install the configuration utility software and update the configuration to meet your requirements.

Installing the Configuration Utility Software

To install the configuration utility software, complete the following steps:

1. Verify the system meets the following minimum requirements:

   - Hardware — Pentium class PC.
   - Memory — 32 MB RAM.
   - Disk — 25 MB hard disk space.
   - I/O — 1 available DB9 or USB port, dependent upon the connector.
   - Operating System - Any operating system that supports a USB keyboard including Microsoft Windows 2000®, XP®, Vista®, 7®, Server 2003®, Server 2008®. Can be used for keystroke applications.

2. Install the pcProx Configuration Utility from the following Web page: http://www.RFIDeas.com/Software/pcProxConfig/.

Configuring the Module

To configure the module for operation, complete the following steps:

1. Start the pcProx Configuration Utility software.

2. Plug the reader into the workstation's USB or DB9 port.

   a. If the module has a USB connector, verify the workstation detected the connection automatically using Device Manager.
   b. If the module has a DB9 connector, verify the correct COM port using Device Manager.
   c. Wiegand modules must be configured using the USB cable.

3. If your reader requires a custom configuration, refer to the *pcProx Plus, pcProx Enroll & Wiegand Manual* for detailed information on the configuring the reader. The manual is available at www.RFIDeas.com, Support > Product Manuals.

4. After the configuration settings are correctly configured and written to the device, unplug the module.

   The module is now ready for installation.

Installation

To install the module into the equipment, complete the following steps:

1. From the back side of the module (the side without the red antennas), insert the standoff into the center hole of the module.

2. Remove the adhesive tape from the standoff.

3. Affix the module to the required location inside the piece of equipment.

4. Depending on your model, plug the USB connector or the DB9 connector into the appropriate port or connect the wires on the pigtail to the appropriate wires in the equipment.

   Notes:
   - On the Wiegand model, the USB connection is not required for operation. The USB connection on Wiegand models is only used if the device needs to be configured.

   - The device may not recognize valid cards in the presence of high RF fields or when placed in close proximity to metal surfaces. If card reads are erratic, move the equipment away from any nearby transmitters or insulate the module from nearby metal surfaces.

Indicators

(LED/Beeper)

The pcProxPlus OEM Module can be equipped with an LED indicator and/or a beeper. These devices are configurable through the pcProx Configuration Utility.

Specifications

Typical Maximum Read Range	1.0" – 3.0" (2.5cm – 7.6cm) Dependent upon proximity card type and environmental conditions
Module Dimensions	2.30" x 1.43" (58.42mm x 36.32mm)
Module Thickness	0.41" (10.4mm) w/o standoffs
Module Weight	0.6 oz. (17.00g)
Standoff Dimensions	0.5"W x 0.5"H x 0.3125"D
Power Supply	USB self-powered or 5 vdc
Transmit Frequency	125 kHz & 13.56 MHz
Operating Temperature Range	-22°F to 150°F (-30°C to 65°C)
Operating Humidity Range	5% to 95% relative humidity, non-condensing
Storage Temperature Range	-40°F to 185°F (-40°C to 85°C)
Indicators	Tri-state LED, beeper
Certifications	FCC, CE, C-TICK, RoHS, Industry Canada
Compatibility	Compatible with Windows CE®/2000®/XP®/Vista®/7®, Macintosh®, Solaris™, Sun Ray™ thin clients, embedded systems and Linux. (Free configuration software required on Windows® operating system.)
Data Available	Wiegand, Serial, or USB
Output Available	SDK interface, USB keystrokes, Wiegand, or ASCII serial
pcProx 125 kHz Supported Cards (Partial List)	AWID CASI-RUSCO® DIGITAG Farpointe Data GProx™ II* HiTag 1, S & 2 ioProx™ (Kantech) Keri NXT Pyramid ReadyKey Pro* Russwin* Cardax* Deister* EM 410x GE Security HID® Prox Indala® (Motorola) Keri* Nexwatch (Honeywell) Radio Key® Rosslare Secura Key *Unique ID
pcProx 13.56 MHz Supported Cards (Partial List)	Advant CSN (Legic) HID iCLASS CSN I-tag CSN ISO 15693 CSN MIFARE Ultralight CSN DESFire CSN eTag CSN I-Code CSN ISO 14443A CSN* MIFARE CSN my-d CSN Tag-It CSN *Select NFC credentials

Technical Support

If you encounter a problem configuring and installing your card reader, refer to the "Tips and Troubleshooting" chapter in the *pcProx Plus, pcProx Enroll & Wiegand Manual*. The manual is available at www.RFIDeas.com under Support > Product Manuals.

If the manual does not address your problem, please contact Technical Support at 866.439.4884 or email TechSupport@RFIDeas.com. Be prepared to explain your problem to the specialist and provide the following information:

- Card reader model.
- Credential type.
- Error messages displayed on the computer.
- What you were doing when the problem occurred.
- Steps taken to resolve the problem, including the results from each of the steps.

Contact Information

If you need sales assistance or have questions, comments, or suggestions, please contact us using one of the following methods:

Toll Free: 866.439.4884
Phone: 847.870.1723
Fax: 847.483.1129

Website: www.RFIDeas.com
Email: Sales@RFIDeas.com

FCC Compliance Statement
FCC ID: M9MOEM805NX
IC: 6571A-OEM805NX

"Pursuant to FCC 15.21 of the FCC rules, changes not expressly approved by RF IDeas might cause harmful interference and void the FCC authorization to operate this product.

Note: This device complies with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This product complies with FCC OET Bulletin 65 radiation exposure limits set forth for an uncontrolled environment.

The reader may not recognize value cards in the presence of high RF fields. If the current reading is erratic, the user shall take the following step: Move the equipment from any known transmitters nearby. For more information contact Tech Support at 866.439.4884.

If the OEM end-user installs this reader inside of an enclosure, **a compliance label provided by RF IDeas** must be permanently affixed to the outside of the equipment. The label must be visible to the end users.

The OEM must not modify this product without expressed approval from RF IDeas.

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