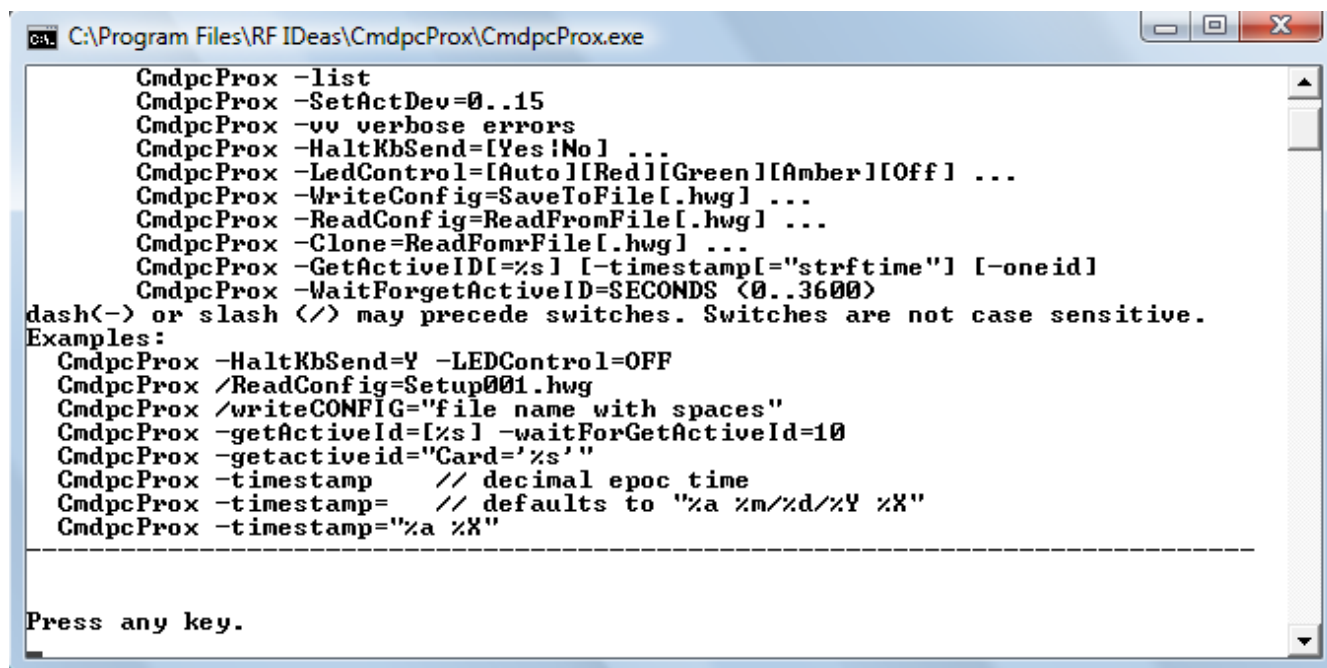

pcProx®

Command Line Utility

User Manual



The screenshot shows a Windows command prompt window titled "C:\Program Files\RF IDEas\CmdpcProx\CmdpcProx.exe". The window displays the help text for the CmdpcProx utility, listing various command-line switches and their functions. The text is as follows:

```
CmdpcProx -list
CmdpcProx -SetActDev=0..15
CmdpcProx -vv verbose errors
CmdpcProx -HaltKbSend=[Yes|No] ...
CmdpcProx -LedControl=[Auto][Red][Green][Amber][Off] ...
CmdpcProx -WriteConfig=SaveToFile[.hwg] ...
CmdpcProx -ReadConfig=ReadFromFile[.hwg] ...
CmdpcProx -Clone=ReadFromFile[.hwg] ...
CmdpcProx -GetActiveID[%s] [-timestamp["strftime"] [-oneid]
CmdpcProx -WaitForGetActiveID=SECONDS (0..3600)
dash(-) or slash (/) may precede switches. Switches are not case sensitive.
Examples:
CmdpcProx -HaltKbSend=Y -LEDControl=OFF
CmdpcProx /ReadConfig=Setup001.hwg
CmdpcProx /writeCONFIG="file name with spaces"
CmdpcProx -getActiveId[%s] -waitForGetActiveId=10
CmdpcProx -getactiveid="Card='%s'"
CmdpcProx -timestamp // decimal epoc time
CmdpcProx -timestamp= // defaults to "%a %m/%d/%Y %X"
CmdpcProx -timestamp="%a %X"
```

At the bottom of the window, it says "Press any key."

RF IDEAS

Thank You!

Congratulations on the purchase of the pcProx device. RF IDEas hopes you enjoy using the new device as much as we enjoyed creating and developing it. Please share your comments and suggestions for our future solutions.

If you are interested in our OEM or Independent Developer's Programs, please call us.

Thank you,

The RF IDEas Staff

Need Assistance?

Call: 847.870.1723

Fax: 847.483.1129

E-mail: Sales@RFIDEas.com

TechSupp@RFIDEas.com

Mail to:

RF IDEas

4238B Arlington Heights Road

Suite #244

Arlington Heights, Illinois 60004

Table of Contents

Thank You!.....	2
End User License Agreement.....	4
Introduction.....	7
Get Started.....	8
Usage.....	9
Examples.....	9
Configure Multiple Devices.....	11
Escape Sequence.....	12
Timestamp Format Parameters.....	12
Input.....	12
Output.....	12
Python Example.....	14
Command Line Parameters.....	15

End User License Agreement

LICENSE AGREEMENT

End-User License Agreement for RF IDEas™ SOFTWARE and HARDWARE - RF IDEas' pcProx®, AIR ID®, Proximity Activated Readers, Software Developer's Kit, and Proximity Reader DLLs, and Protocol(s).

IMPORTANT-READ CAREFULLY: This End-User License Agreement ("EULA") is a legal agreement between you (either an individual or a single entity) and the manufacturer RF IDEas ("Manufacturer") with which you acquired the RF IDEas software and hardware product(s) identified above ("PRODUCT"). The PRODUCT includes the RF IDEas reader, computer software, the associated media, any printed materials, and any "on line" or electronic documentation. By installing, copying or otherwise using the PRODUCT, you agree to be bound by the terms of this EULA. The SOFTWARE PORTION OF THE PRODUCT includes the computer software, the associated media, any printed materials, and any "on line" or electronic documentation. By installing, copying or otherwise using the PRODUCT, you agree to be bound by the terms of this EULA. If you do not agree to the terms of this EULA, RF IDEas is unwilling to license the PRODUCT to you. In such event, you may not use or copy the SOFTWARE PORTION OF THE PRODUCT, and you should promptly contact the vendor you obtained this PRODUCT from for instructions on return of the unused product(s) for a refund.

The products described in this publication are intended for consumer applications. RF IDEas assumes no liability for the performance of product. RF IDEas products are not suitable for use in life-support applications, biological hazard applications, nuclear control applications, or radioactive areas. None of these products or components, software or hardware, are intended for applications that provide life support or any critical function necessary for the support of protection of life, property or business interests. The user assumes responsibility for the use of any of these products in any such application. RF IDEas shall not be liable for losses due to failure of any of these products, or components of these products, beyond the RF IDEas commercial warranty, limited to the original purchase price.

SOFTWARE PRODUCT LICENSE

The PRODUCT is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The SOFTWARE PORTION OF THE PRODUCT is licensed, not sold.

1. GRANT OF LICENSE. This EULA grants you the following rights:

- Software. You may install and use one copy of the SOFTWARE PORTION OF THE PRODUCT on the COMPUTER.
- Network Services. If the SOFTWARE PORTION OF THE PRODUCT includes functionality that enables the COMPUTER to act as a network server, any number of computers or workstations may access or otherwise utilize the basic network services of that server. The basic network services are more fully described in the printed materials accompanying the SOFTWARE PORTION OF THE PRODUCT.
- Storage/Network Use. You may also store or install a copy of the computer SOFTWARE PORTION OF THE PRODUCT on the COMPUTER to allow your other computers to use the SOFTWARE PORTION OF THE PRODUCT over an internal network, and distribute the SOFTWARE PORTION OF THE PRODUCT to your other computers over an internal network.

1.1 General License Grant RF IDEas grants to you as an individual, a personal, nonexclusive license to make and use copies of the SOFTWARE PRODUCT for the sole purposes of designing, developing, and testing your software product(s) that are designed to operate in conjunction with any RF IDEas designed proximity reader product. You may install copies of the SOFTWARE PRODUCT on an unlimited number of computers provided that you are the only individual using the SOFTWARE PRODUCT. If you are an entity, RF IDEas grants you the right to designate one individual within your organization to have the sole right to use the SOFTWARE PRODUCT in the manner provided above.

1.2 Documentation. This EULA grants you, as an individual, a personal, nonexclusive license to make and use an unlimited number of copies of any documentation, provided that such copies shall be used only for personal purposes and are not to be republished or distributed (either in hard copy or electronic form) beyond the user's premises and with the following exception: you may use documentation identified in the SOFTWARE PRODUCT as the file format specification for RF IDEas' proximity readers solely in connection with your development of software product(s) or an integrated work or product suite whose components include one or more general purpose software products.

1.3 Storage/Network Use. You may also store or install a copy of the SOFTWARE PRODUCT on a storage device, such as a network server, used only to install or run the SOFTWARE PRODUCT on computers used by a licensed end user in accordance with Section 1.1. A single license for the SOFTWARE PRODUCT may not be shared or used concurrently by other end users.

1.4 Sample Code. RF IDEas grants you the right to use and modify the source code version of those portions of the SOFTWARE PRODUCT identified as "Samples in the SOFTWARE PRODUCT ("Sample Code") for the sole purposes of designing, developing, and testing your software product(s), and to reproduce and distribute the Sample Code, along with any modifications thereof, only in object code form.

DESCRIPTION OF OTHER RIGHTS AND LIMITATIONS.

- Limitations on Reverse Engineering, Decompilation and Disassembly. You may not reverse engineer, decompile, or disassemble the PRODUCT, except and only to the extent that such activity is expressly permitted by applicable law notwithstanding this limitation.
- You may not reproduce or otherwise emulate, in whole or in part, any form the protocol(s) defined within this PRODUCT for use without a RF IDEas PRODUCT.
- Redistributable Code. If you are authorized and choose to redistribute Sample Code ("Redistributables") as described in Section 1.4, you agree to: (a) distribute the Redistributables in object code only in conjunction with and as a part of a software application product developed by you using the PRODUCT accompanying this EULA that adds significant and primary functionality to the SOFTWARE PRODUCT ("Licensed Product"); (b) not use RF IDEas' name, logo, or trademarks to market the Licensed Product; (c) include a valid copyright notice on the Licensed Product; (d) indemnify, hold harmless, and defend RF IDEas from and against

any claims or lawsuits, including attorney's fees, that arise or result from the use or distribution of the Licensed Product; (e) otherwise comply with the terms of this EULA; and (g) agree that RF IDEas reserves all rights not expressly granted. You also agree not to permit further distribution of the Redistributables by your end users except: (1) you may permit further redistribution of the Redistributables by your distributors to your end-user customers if your distributors only distribute the Redistributables in conjunction with, and as part of, the Licensed Product and you and your distributors comply with all other terms of this EULA; and (2) in the manner described in Section 1.4.

- Separation of Components. The PRODUCT is licensed as a single product. Its component parts may not be separated for use on more than one computer.
- Single COMPUTER. The PRODUCT is licensed with the COMPUTER as a single integrated product. The PRODUCT may only be used with the COMPUTER.
- Rental. You may not rent or lease the PRODUCT without permission from RF IDEas
- Software Transfer. You may permanently transfer all of your rights under this EULA only as part of a sale or transfer of the COMPUTER, provided you retain no copies, you transfer all of the PRODUCT (including all component parts, the media and printed materials, any upgrades, this EULA and, if applicable, the Certificate(s) of Authenticity), AND the recipient agrees to the terms of this EULA. If the PRODUCT is an upgrade, any transfer must include all prior versions of the PRODUCT.
- Termination. Without prejudice to any other rights, RF IDEas may terminate this EULA if you fail to comply with the terms and conditions of this EULA. In such event, you must destroy all copies of the SOFTWARE PORTION OF THE PRODUCT and all of its component parts.

3, UPGRADES. If the SOFTWARE PORTION OF THE PRODUCT is an upgrade from another product, whether from RF IDEas or another supplier, you may use or transfer the PRODUCT only in conjunction with that upgraded product, unless you destroy the upgraded product. If the SOFTWARE PORTION OF THE PRODUCT is an upgrade of a RF IDEas product, you now may use that upgraded product only in accordance with this EULA. If the SOFTWARE PORTION OF THE PRODUCT is an upgrade of a component of a package of software programs which you licensed as a single product, the SOFTWARE PORTION OF THE PRODUCT may be used and transferred only as part of that single product package and may not be separated for use on more than one computer.

4. OEM COPYRIGHT. All title and copyrights in and to the PRODUCT (including but not limited to any images, photographs, animations, video, audio, music, text and "applets," incorporated into the PRODUCT), the accompanying printed materials, and any copies of the SOFTWARE PORTION OF THE PRODUCT, are owned by RF IDEas or its suppliers. The PRODUCT and SOFTWARE PORTION OF

1.1 THE PRODUCT is protected by copyright laws and international treaty provisions. You may not copy the printed materials accompanying the PRODUCT.

5. DUAL-MEDIA SOFTWARE. You may receive the SOFTWARE PORTION OF THE PRODUCT in more than one medium. Regardless of the type or size of medium you receive, you may use only one medium that is appropriate for your single computer. You may not use or install the other medium on another computer. You may not loan, rent, lease, or otherwise transfer the other medium to another user, except as part of the permanent transfer (as provided above) of the SOFTWARE PORTION OF THE PRODUCT.

FOR THE LIMITED WARRANTIES AND SPECIAL PROVISIONS PERTAINING TO YOUR PARTICULAR JURISDICTION, PLEASE REFER TO YOUR WARRANTY BOOKLET INCLUDED WITH THIS PACKAGE OR PROVIDED WITH THE SOFTWARE PRODUCT PRINTED MATERIALS.

Limited Warranty: RF IDEas warrants to the original buyer of this product, that the hardware and related disk(s) are free of defects in material and workmanship for a period of one year from date of purchase from RF IDEas or from an authorized RF IDEas dealer. Should the RF IDEas products fail to be in good working order at any time during the one-year period, RF IDEas will, at its option, repair or replace the product at no additional charge, provided that the product has not been abused, misused, repaired or modified. This warranty shall be limited to repair or replacement and in no event shall RF IDEas be liable for any loss of profit or any commercial or other damages, including but not limited to special, incidental, consequential or other similar claims.

No dealer, distributor, company, or person has been authorized to change or add to the terms of this agreement, and RF IDEas will not be bound by any representation to the contrary. RF IDEas SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS OF PURPOSE. Since some states do not allow such exclusion of limitation of incidental or consequential damages for consumer products, check the statute of the state in which your business resides. This warranty gives you the specific legal rights in addition to any rights that you have under the laws of the state in which your business resides or operates.

Returns: RF IDEas products which require Limited Warranty service during the warranty period shall be delivered to the nearest authorized dealer or sent directly to RF IDEas at the address below with proof of purchase and a Return Materials Authorization (RMA) Number provided by RF IDEas Technical Support Dept. Replacement parts or complete boards become the property of RF IDEas. If the returned board or unit is sent by mail, the purchaser agrees to pre-pay the shipping charges and insure the board or unit or assume the risk of loss or damage which may occur in transit. The purchaser is expected to employ a container equivalent to the original packaging.

Copyright: Copyright by RF IDEas 1997-2009. All rights reserved. Reproduction or distribution of this document in whole or in part or in any form is prohibited without express written permission from RF IDEas.

Trademarks: All RF IDEas products are trademarks of RF IDEas. All other product names or names are trademarks or registered trademarks of their respective holders.

Disclaimer: This Reference Guide is printed in the U.S.A. Any resemblance mentioned in the Reference Guide to persons living or dead, or to actual corporations or products is purely coincidental. RF IDEas believes that the information contained in this manual is correct. However, RF IDEas does not assume any responsibility for the accuracy of the content of this User Manual, nor for any patent infringements or other rights of third parties.

RF IDEas reserves the right to make any modifications in either product or the manual without giving prior written notification.

FCC Compliance Statement

FCC ID: M9MPCPROXHUSB100 (HID USB model)

FCC ID: M9MPCPROXH100 (HID RS-232 model)

FCC ID: M9MPCPROXM101 (Indala model)

FCC ID: M9MRDR6981 (AWID)

FCC ID: M9MRDR6881 (Kantech, Indala, Casi-Rusco)

FCC ID: M9MPCPROXP100 (Pyramid)

FCC ID: M9MPCPROXC101 (Casi-Rusco model)

FCC ID: M9MRDR6091 (HID Low Power)

FCC ID: M9MRFID1356I100 (MIFARE/*i*CLASS models)

FCC ID: M9MRDR7L81 (Legic 13.56MHz)

FCC ID: M9MRDR7081 (*i*CLASS Module based)

FCC ID: M9MRDR7181 (*i*CLASS MIFARE and Other 13.56Mhz)

FCC ID: M9MRDR7581 (*i*CLASS MIFARE and Other 13.56Mhz)

FCC ID: M9MRDR7081AKF (*i*CLASS MIFARE and Other 13.56Mhz)

FCC ID: M9MRDR7081AKE (*i*CLASS MIFARE and Other 13.56Mhz)

Attention: Changes to this reader system not expressly approved by RF IDEas will void the User's authority to operate the equipment.

Note: This device complies with Part 15 of the FCC Rules. 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.

Introduction

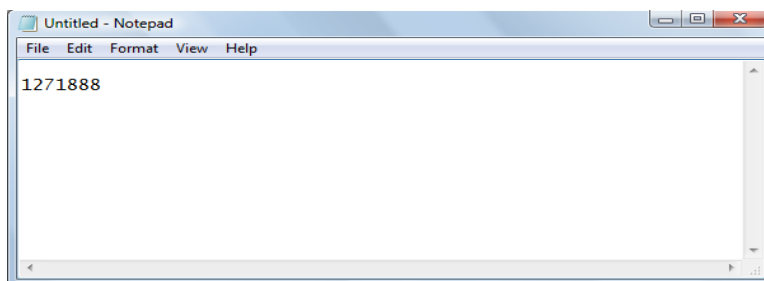
The simple command line interface, *cmdpcProx.exe*, is used to configure the pcProx card reader without the complexity of C/C++ .NET or VB.

BATCH files (.bat), CMD files (.CMD), and other scripting languages such as Python, PERL, Ruby, C/C++, and Visual Basic can be used to configure the device to:

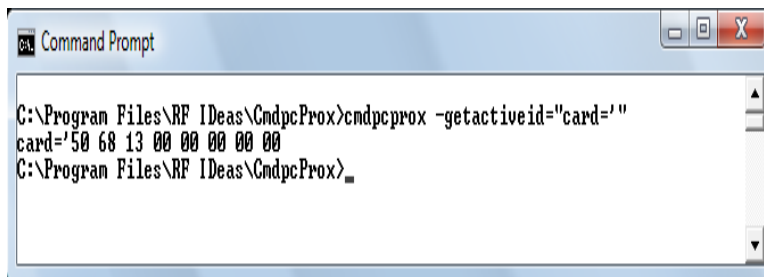
- Enable or disable sending keystrokes to active window/application
- Control the color and functionality of the LED
- Save and restore device settings
- Read cards using GetActiveID function
- Wait N seconds for active card data
- Provide an optional user defined time stamp string
- Clone device setup to a USB hub of devices

Command line parameters to the utility control the device and the card data . The data can display in the active window/application (standard output) or be redirected to a file. The device displays card data in two ways.

1. The device emulates a keyboard and types the keystrokes to the active window/application.



2. The device displays the card data as a string of 8 hexadecimal bytes.



Get Started

Verify C:\Program Files\RF Ideas\Cmdpcprox is in your path.

This runs as a command line utility under Windows. The operating systems that support this utility are Windows 95, 98, 2000, XP, or Vista.

Usage

Run the cmdpcprox utility without parameters to display the Help usage. See the examples below.

Help Commands	
Usage: switch=value	
cmdpcprox	-version
cmdpcprox	-list
cmdpcprox	-SetActDev=0. .127
cmdpcprox	-vv verbose errors
cmdpcprox	-HaltKbSend=[Yes No]
cmdpcprox	-LedControl=[Auto] [Red] [Green] [Amber] [Off]
cmdpcprox	-WriteConfig=SaveToFile [.hgw]
cmdpcprox	-ReadConfig=ReadFromFile [.hgw]
cmdpcprox	-Clone=ReadFromFile [.hgw]
cmdpcprox	-GetActiveID=[%s] [-timestamp="strftime"] [-oneid]
cmdpcprox	-WaitForgetActiveID=SECONDS (0..3600)
dash(-) or slash (/) may be before parameters. Switches are not case sensitive.	
Examples:	
cmdpcprox	-HaltKbSend=Y -LEDControl=OFF
cmdpcprox	/ReadConfig=Setup001 .hgw
cmdpcprox	/writeCONFIG="file name with spaces"
cmdpcprox	-getActiveId= [%s] -waitForGetActiveId=10
cmdpcprox	-getactiveid="Card=%s"
cmdpcprox	-timestamp // decimal epoc time
cmdpcprox	-timestamp= // defaults to "%a %m/%d/%Y %X"
cmdpcprox	-timestamp="%a %X"

Examples

Let's start with a simple command.

Example #1: The device should send keystrokes only when Notepad is running. When Notepad is closed, no card data should be typed into the active window/application.

Notify users when the device is active using two switches:

1. *-haltkbsend=y*
2. *-ledcontrol= off*

Note: Set *-haltkbsend=n* initially so all keystrokes are sent via the device.

Enter the parameters:

```
cmdpcprox haltkbsend=n -ledcontrol=auto
start /wait Notepad
cmdpcprox -haltkbsend=y -ledcontrol=off
```

The first command sends keystrokes to the active window/application and sets the LED control to automatic, which by default is **red** when ready and **green** when active data is present. The color of the LED indicates if the device is actively sending to Notepad.

The second command opens Notepad. The */WAIT* parameter stops the utility from performing the next command immediately.

The third command stops sending keystrokes and turns off the LED when Notepad is closed.

Example #2: The device must type keystrokes to a specific customer application. A log of the card data read and a time date stamp on each card read must be typed into the specific customer application. Here Notepad as the active application.

Note: Set *haltkbsend=N* so the keystrokes display in Notepad.

Enter the parameters:

```
cmdpcprox -GetActiveID= "Card Data: BEGIN %s END"
```

The utility displays card data when the LED is **green**. The device can be configured to wait between 1 and 3,600 seconds for card data. The following example configures the device to wait 10 seconds for data. The '%s' represents the card string.

```
cmdpcprox -GetActiveID= "Card Data: BEGIN %s END" -waitforGetActiveID= 10 -oneid
```

The utility prints: Card Data: BEGIN 87 BA 54 00 00 00 END

Note: Standard C printf formatting may be used such as “%-9.9s”

Enter the parameters:

Start Notepad

```
cmdpcProx -haltkbsend=n -getactiveid= "Card read:%s\n"  
-oneid -waitforgetactiveid=10 -timestamp= "%X" >> logfile.txt
```

The device types the keystrokes into Notepad. The API function call returns the data.

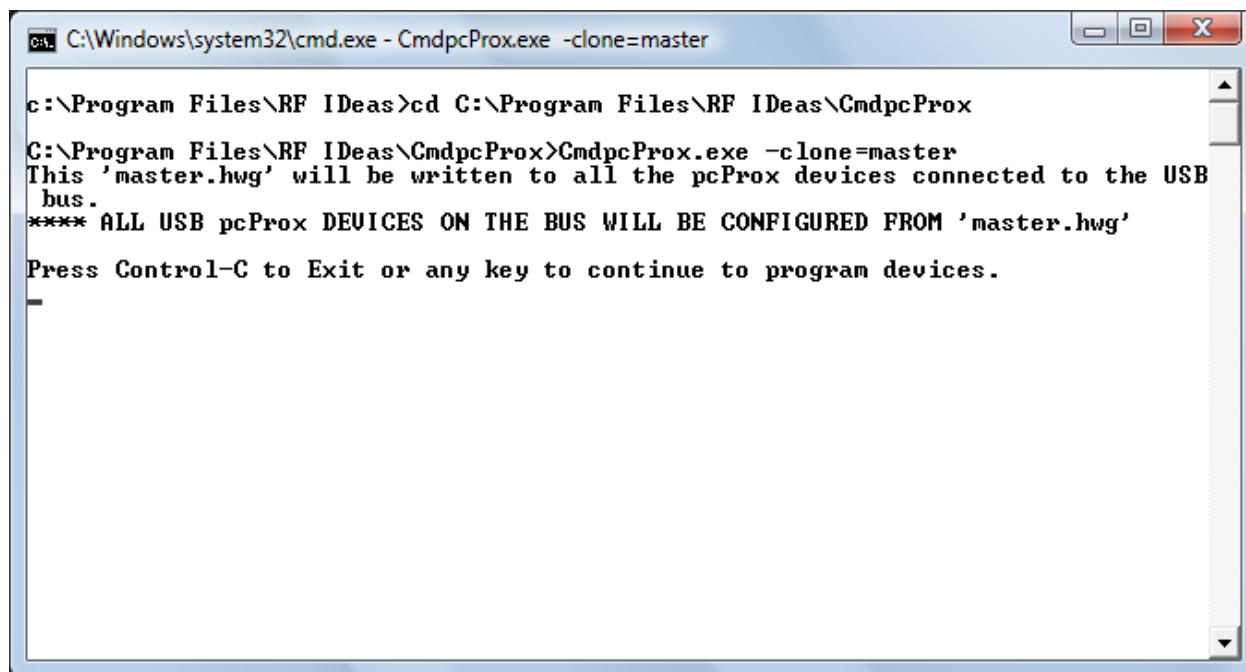
- The `\n` in the parameter of the *GetActiveID* represents a *newline* (ASCII Line Feed 0x0a).
- The `-oneid` parameter causes the utility to wait until the card is inactive before exiting the utility.
- The time stamp always prints before the card data.

Configure Multiple Devices

To program multiple devices with the same configuration:

1. Connect the master device that has the configuration to clone to the USB port.
2. Run `cmdpcprox -writeconfig=master`.
The configuration is read and the *master.hwg* file is created.
3. Unplug the master device from the USB port.
4. Enter `cmdpcprox -clone= master` to clone multiple devices with this configuration.

When the utility finds 1 to 16 devices, they will be configured exactly as the master device. This same master.hwg file is saved to device's memory. The device LED flickers while the file is being written to flash memory.



```
C:\Windows\system32\cmd.exe - CmdpcProx.exe -clone=master

c:\Program Files\RF Ideas>cd C:\Program Files\RF Ideas\CmdpcProx
C:\Program Files\RF Ideas\CmdpcProx>CmdpcProx.exe -clone=master
This 'master.hwg' will be written to all the pcProx devices connected to the USB
bus.
**** ALL USB pcProx DEVICES ON THE BUS WILL BE CONFIGURED FROM 'master.hwg'
Press Control-C to Exit or any key to continue to program devices.
_
```

Note: The utility will timeout after 60 seconds of no activity.

Press 'Control + C' to exit the cloning loop.

Escape Sequence

Several escape sequences can be used in the format strings of *GetActiveID*.

Appears in Format String	Represents	Hex Character
\\	Back Slash \	0x5c
\a	Bell	0x07
\b	Back Space (control H)	0x08
\e	Escape	0x1b
\f	Form Feed	0x0c
\n	New Line or Line Feed	0x0a
\r	Carriage Return	0x0d
\t	Tab	0x09

Timestamp Format Parameters

Input	Output	Example
%a	Replaced by the locale's abbreviated weekday name	Tue
%A	Replaced by the locale's full weekday name	Monday
%b	Replaced by the locale's abbreviated month name	Feb
%B	Replaced by the locale's full month name	December
%c	Replaced by the locale's appropriate date and time representation	Thu Feb 10 14:55:02 2009
%C	Replaced by the century – the year divided by 100 and truncated as a decimal integer 00-99	19
%d	Replaced by the day of the month as a decimal number	10
%D	Equivalent to %m / %d / %y	02/10/09
%e	Replaced by the day of the month as a decimal number - a single digit is preceded by a space	1 to 31
%F	Equivalent to %Y - %m - %d - the ISO 8601:2000 standard date format	02/10/09
%g	Replaced by the last 2 digits of the week-based year as a decimal number	00 - 99
%G	Replaced by the week-based year (see below) as a decimal number	1977
%h	Equivalent to %b	Jan, Feb,
%H	Replaced by the hour (24-hour clock) as a decimal number	00 - 23
%I	Replaced by the hour (12-hour clock) as a decimal number	01/12/09
%j	Replaced by the day of the year as a decimal number	00 - 366
%m	Replaced by the month as a decimal number	01,12
%M	Replaced by the minute as a decimal number	00,59
%n	Replaced by a <newline>	
%p	Replaced by the locale's equivalent of either a.m. or p.m.	AM or PM
%r	Replaced by the time in a.m. and p.m. notation; in the POSIX locale this shall be equivalent to %I : %M : %S %p	09:10:11 PM for 21:10:11
%R	Replaced by the time in 24-hour notation (%H : %M)	00:43 for 12:43 AM
%S	Replaced by the second as a decimal number 00 - 60	00 through 59
%t	Replaced by a <tab>	
%T	Replaced by the time (%H : %M : %S)	21:10:11 for 09:10:11 PM

Input	Output	Example
%u	Replaced by the weekday as a decimal number	1 - 7 with 1 representing Monday
%U	Replaced by the week number of the year as a decimal number 00 - 53. The first Sunday of January is the first day of week 1; days in the new year before this are in week 0	33
%w	Replaced by the weekday as a decimal number with 0 representing Sunday 0 - 6	4
%V	Replaced by the week number of the year (Monday as the first day of the week) as a decimal number 01,53. If the week containing 1 January has 4 or more days in the new year, then it's considered week 1. Otherwise, it's the last week of the previous year, and the next week is week 1. Both January 4th and the first Thursday of January are always in week 1	01 through 53
%w	Replaced by the weekday as a decimal number 0,6, with 0 representing Sunday	0 (Sunday) to 6 (Saturday)
%W	Replaced by the week number of the year as a decimal number 00,53. The first Monday of January is the first day of week 1; days in the new year before this are in week 0	43
%x	Replaced by the locale's appropriate date representation. IEEE Std1 003.1-2001	02/10/09
%X	Replaced by the locale's appropriate time representation. IEEE Std1 003.1-2001	03:43:10 for 15:43:10
%Y	Replaced by the year as a decimal number (for example, 1997)	2010
% z	Replaced by the offset from UTC in the ISO 8601:2000 standard format (+hhmm or -hhmm), or by no characters if no timezone is determinable.	"-0430" means 4 hours 30 Greenwich)
% Z	Replaced by the timezone name or abbreviation, or by no bytes if no timezone information exists	CDT
%%	Replaced by %	%

Python Example

Since the utility returns standard output of the *GetActiveID* data string, many other scripting languages can also retrieve data from the device. This is a Python file example to read a card using cmdpcprox.

```
#
# Python example of reading a card using cmdpcprox
#
import os,string,time

#
# Invoke utility and read its standard output of epoc timestamp and card data
#
fd = os.popen('cmdpcprox -timestamp -getactiveid=":%s" -waitforgetactiveid=10')
s = fd.read()
fd.close()

#
# Split time and card data field on colon since we used ":%s" on the switch
#
ss = s.split(':')
print s,ss
t = time.ctime(string.atol(ss[0]))

#
# show results
#
print t,ss[1]
```

Command Line Parameters

Parameters may be preceded with a – or \ (Unix or Windows style). All names are not case sensitive, so all lower, all upper, or mixed case spelling may be used. Parameters are case preserved.

Parameter	Function
-version	Display program versions
-list	Show all devices found 0.. 127
-SetActDev=0	Set active device number 0.. 127 (default is device zero)
-haltkbsend=[Y N]	Enable or disable keystroke data
-getactiveid -getactiveid="Card is:%s"	Format card string
-oneid	When used with -getactiveid wait for card data to go inactive before allowing utility to exit
-waitforgetactiveid=NN	Number of seconds NN=0..3 600 waits this long for card data to be present
-timestamp	Prints seconds since epoch time 0=Jan 1st, 1970
-timestamp=	For convenience same as -timestanp="%a %m/%d/%Y %X"
-ledcontrol=[off red green orange auto]	Must be one of the five values. Auto is the factory default
-readconfig=MyFile[.hwg]	Reads ASCII Hog file and writes setting into device memory
-writeconfig=MyFile[.hwg]	Save device memory setting into ASCII file
-clone	Prompting, waiting, and writing setup file into all pcProx devices on USB bus