CB Electronics PD-1

Programming Guide

Version 1.0





CB Electronics

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Firmware Updates

The USB-422 supplied with the PD-1 is used to update the PD-1 firmware connect the USB-422 output port to the PD-1 input port as show in the diagram below.RS422 Input port is used to update the PD-1. You may need a driver for the USB-422 if you are using a different computer. Firmware updates are posted on the appropriate product page:

PD-1- - http://www.colinbroad.com/cbsoft/pd1.html

There are two different programming algorithms depending on the PD-1 core software. The instructions blow describe how to discover the version and setup correctly. You will find both a Mac and Windows version of "RS422updon the same page.

Programming Connection







Programming Procedure

Opening Screen showing selected	RS422upd		
RS422 port. After reading the	File View Edit Help		
Version. Note the Green Good	Select Port Update S/W Options Help Debug		
Com s indicator.	Update Firmware Enable File Start Reset Byte Count 0		
	F/W Revision and Build pcb rev - 00 01 core rev - 02 01 build - C2 03 main rev - 02 00 build - C9 24 Pd-1 View Comms Read Version Close		
Click on enable to discover the	RS422upd		
correct programming algorithm.	File View Edit Help		
Look at the PD-1 Display to check if	Select Port Update S/W Options Help Debug		
the box should be ticked or Not	Update Firmware Fnable File Start Reset Byte Count 0		
	F/W Revision and Build pcb rev - 00 01 core rev - 02 01 build - C2 03 main rev - 02 00 build - C9 24 Pd-1 Image: Command Comm		





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Click Start, the progress bar will run	RS422upd		
and the byte count on both the	<u>E</u> ile View <u>E</u> dit Help		
PD-1 and RS422upd will increment	Select Port Update S/W Options Help Debug		
	Update Firmware Enable File Start Reset		
	pd1v2-17629.bin		
	Byte Count 6224		
	F/W Revision and Build		
	pcb rev - 00 01		
	core rev - 03 01 build - 18 25 main rev - 00 04 build - 18 25		
	Pd-1		
	View Comms Read Version		
	Abort Good Coms Close		
Mile and Finish and Oligic and magnetize	PS422upd		
When Finished Click on reset to	RS422upd		
restart the PD-1, if you program	Eile View Edit Help		
restart the PD-1, if you program with the wrong software or have a	Eile View Edit Help Select Port Update S/W Options Help Debug		
restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help		
restart the PD-1, if you program with the wrong software or have a	Eile View Edit Help Select Port Update S/W Options Help Debug Update Firmware Update S/W Options Help Debug		
restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help Debug Select Port Update S/W Options Help Debug Update Firmware Enable File Start Reset pd1v2-17629.bin Image: Comparison of the start Image: Comparison of the start Image: Comparison of the start		
restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help Select Port Update S/W Options Help Debug Update Firmware Enable File Start Reset		
restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help Debug Select Port Update S/W Options Help Debug Update Firmware Enable File Start Reset pd1v2-17629.bin Image: Comparison of the start Image: Comparison of the start Image: Comparison of the start		
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restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help Debug Update Firmware Update File Start Reset pd1v2-17629.bin Byte Count Finished		
restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help Debug Update Firmware Update File Start Reset pd1v2-17629.bin Byte Count Finished Byte Count Finished F/W Revision and Build pcb rev - 00 01 core rev - 03 01 core rev - 03 01 build - 18 25 Start Start		
restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help Select Port Update S/W Options Help Debug Update Firmware Enable File Start Reset pd1v2-17629.bin Byte Count Finished F/W Revision and Build pcb rev - 00 01 core rev - 03 01 build - 18 25 main rev - 00 04 build - 18 25		
restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help Debug Update Firmware Update File Start Reset pd1v2-17629.bin Byte Count Finished Byte Count Finished F/W Revision and Build pcb rev - 00 01 core rev - 03 01 core rev - 03 01 build - 18 25 Start Start		
restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help Select Port Update S/W Options Help Debug Update Firmware Enable File Start Reset pd1v2-17629.bin Byte Count Finished F/W Revision and Build pcb rev - 00 01 core rev - 03 01 build - 18 25 main rev - 00 04 build - 18 25 Pd-1		
restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help Select Port Update Firmware Enable File Start Reset pd1v2-17629.bin Byte Count Finished F/W Revision and Build pcb rev - 00 01 core rev - 03 01 build - 18 25 main rev - 00 04 build - 18 25 Pd-1 View Comms Read Version		
restart the PD-1, if you program with the wrong software or have a problem you can use the recovery	Eile View Edit Help Select Port Update S/W Options Help Debug Update Firmware Enable File Start Reset pd1v2-17629.bin Byte Count Finished F/W Revision and Build pcb rev - 00 01 core rev - 03 01 build - 18 25 main rev - 00 04 build - 18 25 Pd-1		



In the case of power failure or other problems when updating the PD-1 firmware.

- 1. Abort and exit from "RD422upd"
- 2. Disconnect the Power then reconnect whist depressing [Stem] and [Assign]. The Software Download screen will be displayed as below.
- 3. Restart "RD422upd". You may need to re-select the correct port.
- 4. Check the display to see if the PD-1 box should be ticked

Pd-1 New PD-1 in programming mode, the PD-1Box NOT ticked
Load Firmware 000000 01F9B5
Old PD-1 in programming mode, PD-1 box must be ticked!
Core: 02.01.8C.15.00.01. (Core: 02.01.8C.15.00.01.) (Core: 02.01.8C.15.00.01.) (Cor

5. Program the PD-1as normal

PD-1v2 Software Key Request and Installation

When you install PD-1v2 software it will work for about a week before needing a software key. At this point the LCD will display "No PD2 License". The trial period can be extended one time only.

- 1) Connect RS433upd to the PD-1 as normal
- 2) Select the option page
- 3) Read the Signature and email to <u>sales@colinbroad.com</u> with a requiest. For a permanent key make payment by paypal or credit card available on the PD-1 web page. <u>http://www.colinbroad.com/cbsoft/pd1/pd1.html</u>
- 4) You will receive a key once payment has been received or an extension by return.

RS422upd		
<u>F</u> ile View <u>E</u> dit He	lp	
Select Port Updat	e S/W Options Help Debug	
Signature		
Read		Copy to Clipboard
Option		
Product	PD-1	
Option	PD-1v2 s/w key 💌	Enable
Кеу		
F/W Revision and E	Build	
7.7		
?.?		
7.7		
Pd-1		
View Comms		Read Version
(No Coms	Close

- 5) Select the Product and Option required
- 6) Enter the supplied key copy and paste works well
- 7) Click on Enable to install key