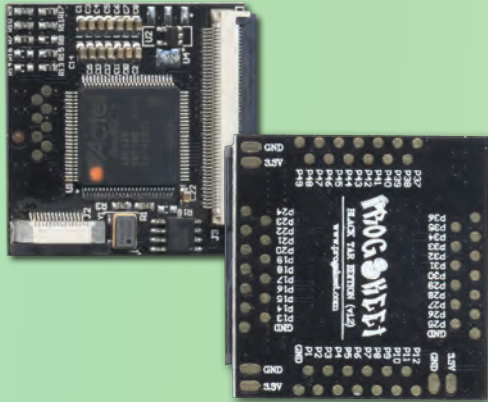




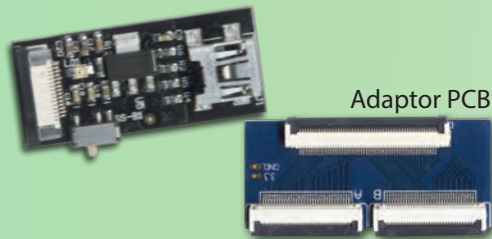
# PROGSKEET V1.2 DATASHEET - rev.0.1 - 15/10/12

Announcing ProgSkeet 1.2, Black Tar Edition

PROGSKEET 1.2 Main board



PROGSKEET 1.2 Slave board



Packing: 1  
Progskeet 1.2 "no programmer" + Adaptor Pcb



Packing: 2  
Progskeet 1.2 FULL KIT (incl. Injectus)



- Smallest footprint EVER
- Special 4 layer 35um design (separate ground and power planes)
- Increased sturdiness thanks to FR4 polymer based PCB (bulletproof! go ahead and try to shoot it with rubber bullets, we did!)
- Improved stability for novice users (we understand that sometimes wiring can be subpar)
- Consumes much less power (even during operation, U MAD NINTENDO?)
- Backwards compatible, including clip support (legacy bitstream)
- Customly crafted CPU to meet hobbyist demand (upcoming bitstream)
- Contains SPI flash (upcoming bitstream)
- Partially open source (upcoming bitstream)
- Switch & LED (Dual-Boot available in legacy, can be controlled by user as well in upcoming bitstream)
- Streaming over several ports (upcoming bitstream)
- Hardware Serial Engine (upcoming bitstream)
- SPI Slave (which can also be used by user, upcoming bitstream)

### Hardware specifications:

#### Main board

- Powerful Actel A3P125 FPGA
- High Quality Branded 48.000Mhz Crystal
- 1Mbit SPI FLASH on board (to store settings and more ...)
- ZIF connector 50 pin expansion port (compatible NOR / NAND connections)
- ZIF 15 pin connector with these signals:
  - LED (slave board)
  - Switch (slave board)
  - USB slave (slave board)
  - SPI line (for future expansion tools)
  - JTAG line (injectus compatible, necessary to update ACTEL on board)

#### Slave board

- Switch on board for future uses (DUAL NAND / NOR SELECTION)
- Status LED on board
- Mini usb slave port.

### PROGSKEET 1.2 available packages on the market:

#### PROGSKEET 1.2 "no programmer"

*This kit is ok for who has already an actel programmer. Remember that progskeet's firmware need to be updated! To use progskeet an actel programmer is necessary!*

- Main board PROGSKEET 1.2
- Slave board PROGSKEET 1.2
- Adaptor PCB

#### PROGSKEET 1.2 FULL KIT

*The official progskeet kit that include all what you need to enjoy progskeet features.*

- Main board PROGSKEET 1.2
- Slave board PROGSKEET 1.2
- Adaptor PCB
- Injectus JTAG actel programmer

### PROGSKEET 1.2 FULL KIT is compatible with:

- NAND PCB 16 Mbytes PROGSKEET
- NAND PCB 16 Mbytes SQUIRT TEAM
- NAND PCB 128 Mbytes PROGSKEET
- NAND PCB 512 Mbytes SQUIRT TEAM
- NAND CLIPS WIICLIP TEAM (we discourage to use them)
- NOR CLIPS WIICLIP TEAM (we discourage to use them)
- QSB CORONA SQUIRT TEAM
- QSB TRINITY SQUIRT TEAM
- **QSB PROGSKEET NOR / NAND (coming soon)**



# PROGSKEET V1.2 USER MANUAL - rev.0.1 - 15/10/12

## Chapter 1. "How to UPDATE the bitstream of PROGSKEET":

- Connect the flat FCC 15 pin to the INJECTUS programmer
- Connect USB cable from INJECTUS to the USB port of your Windows based PC



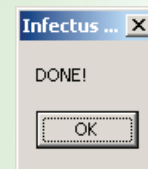
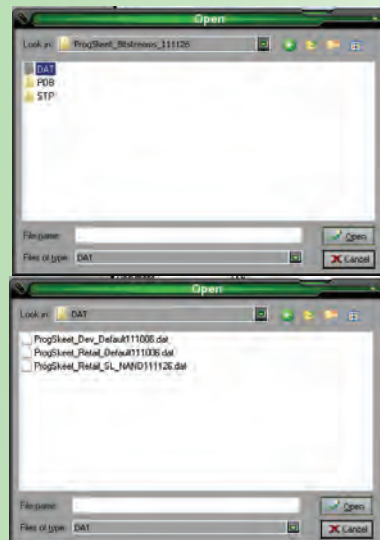
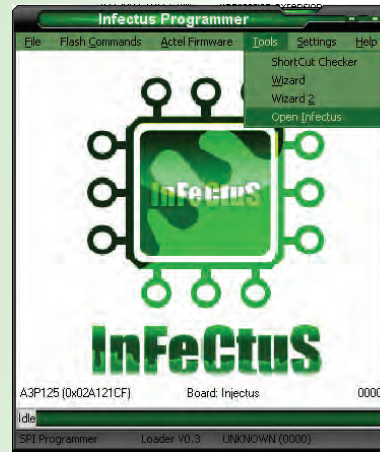
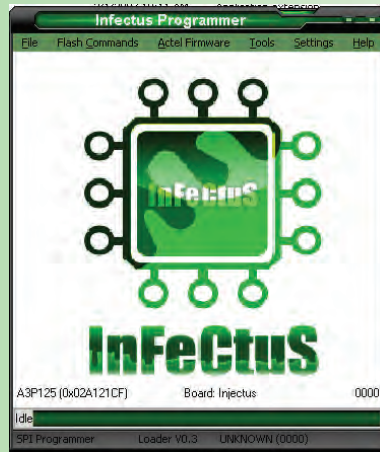
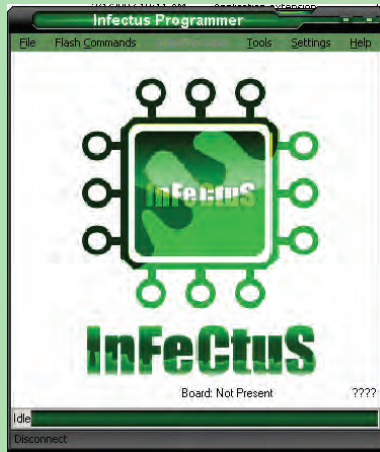
After connected the INJECTUS programmer to the PC windows will ask you the drivers. Download the INFECTUS PROGRAMMER PACKAGE 3.9.9.0 from this location: <http://www.progskeet.com/forum/viewtopic.php?f=10&t=3948> Inside you will find the USB drivers of the Silabs USB IC installed on INJECTUS. After Injctus is correctly recognized just load INFECTUS PROGRAMMER software

ARGON FIRMWARES	12/6/2011 3:28 PM	File folder	
INFECTUS-DLL1.1	12/6/2011 3:28 PM	File folder	
USB-Drivers3.1	12/6/2011 3:28 PM	File folder	
InfectusProgrammer_3.9.9.0.exe	3/17/2009 4:11 PM	Application	5,031 KB
readme.txt	10/29/2008 6:21 PM	Text Document	2 KB
SIUSBxp.dll	3/1/2007 10:11 AM	Application extension	88 KB
Wasabus1.2.zip	4/17/2008 10:38 PM	WinRAR ZIP archive	586 KB

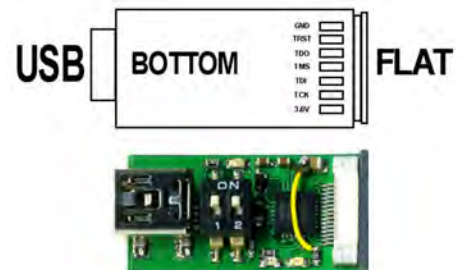
### Procedure to update PROGSKEET with Injctus:

- run injctus programmer software
- click tools
- open infectus (at bottom of pulldown)
- load dat file
- click program

*Note: can be done when already connected to console flash.*  
Here some screenshot of the procedure:



In this picture below the injectus PINOUT (good to know if you have to program other devices actel). Also you see a yellow wire solder on the injectus. This is necessary only to bring more power to jtag. Not necessary for progskeet!





# PROGSKEET V1.2 USER MANUAL - rev.0.1 - 15/10/12

## Chapter 2. "The PINOUT of PROGSKEET V1.2" :

- Connect the flat FCC 15 pin to the INJECTUS programmer
- Connect USB cable from INJECTUS to the USB port of your Windows based PC



After connected the INJECTUS programmer to the PC windows will ask you the drivers.

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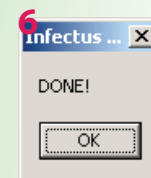
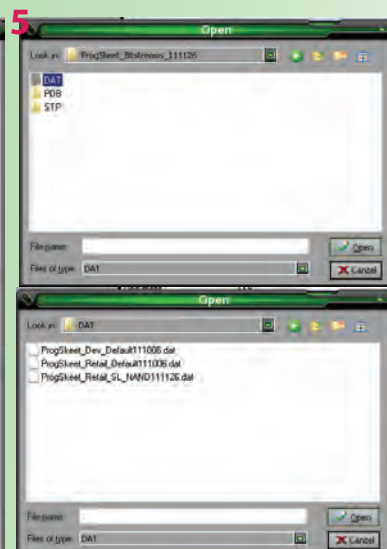
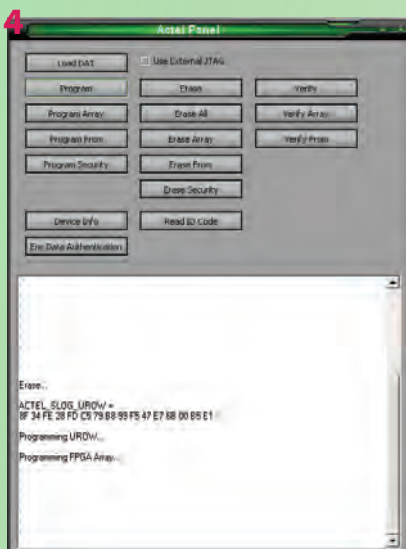
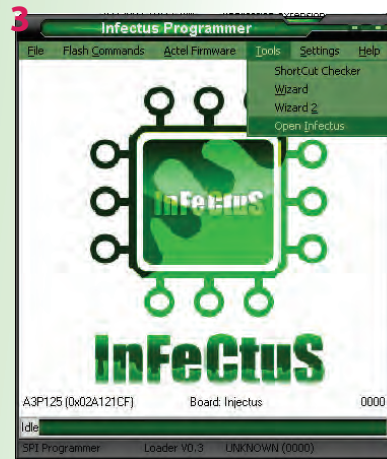
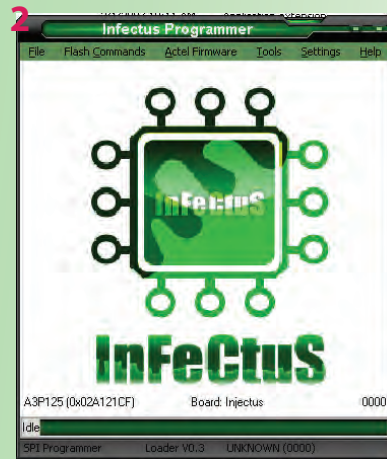
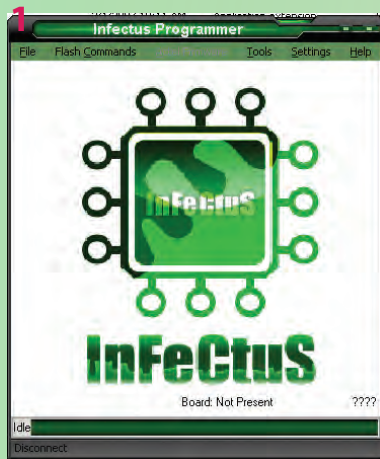
**PROGSKEET 1.2 is sold EMPTY, you should download the bitstream you need on [www.progskeet.com](http://www.progskeet.com) website**

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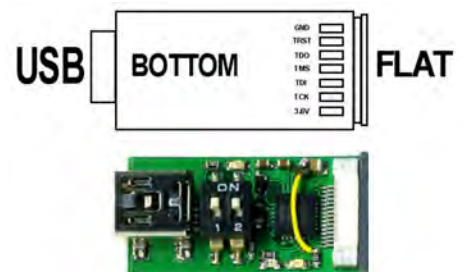
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## PROGSKEET V1.2 USER MANUAL - rev.0.1 - 15/10/12

### Chapter 2. "The PINOUT of PROGSKEET V1.2":

The best source of informations regarding PROGSKEET is available on this website:

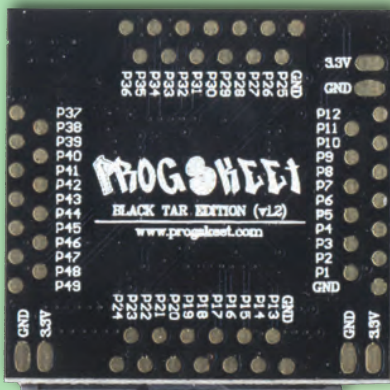
<http://www.ps3devwiki.com/wiki/Progskeet>

During next days this manual will be updated with more infos regarding the features of progskeet 1.2

Right now PROGSKEET 1.2 is able to read and write NAND and NOR FLASH exactly like PROGSKEET 1.1, we will add soon the support of DUAL NOR and DUAL NAND together with the release of easy QSB pcb that can be attached solderless by FCC cables directly to PROGSKEET (NOR QSB) or throught ADAPTOR PCB (NAND QSB).

On PS3DEVWIKI you can find all the diagrams to connect PROGSKEET to several devices (consoles etc).

The urgent info that our customers needs is the PINOUT of the pads on the back of PROGSKEET, here the pinout:



#### NAND1 Connection:

*Data signals*

P41 = IO7 / DQ7  
 P40 = IO6 / DQ6  
 P39 = IO5 / DQ5  
 P38 = IO4 / DQ4  
 P37 = IO3 / DQ3  
 P36 = IO2 / DQ2  
 P35 = IO1 / DQ1  
 P34 = IO0 / DQ0

*Control signals*

P09 = CLE  
 P08 = ALE  
 P07 = WE  
 P06 = RE  
 P05 = CE\_A  
 P04 = WP  
 P03 = CE\_B  
 P02 = R/B#

#### NAND2 Connection:

*Data signals*

P49 = IO15 / DQ15  
 P48 = IO14 / DQ14  
 P47 = IO13 / DQ13  
 P46 = IO12 / DQ12  
 P45 = IO11 / DQ11  
 P44 = IO10 / DQ10  
 P43 = IO9 / DQ9  
 P42 = IO8 / DQ8

*Control signals*

P33 = CLE  
 P32 = ALE  
 P31 = WE  
 P30 = RE  
 P29 = CE\_A  
 P28 = WP  
 P27 = CE\_B  
 P26 = R/B#

#### NOR connection:

*Data signals*

P49 = D15  
 P48 = D14  
 P47 = D13  
 P46 = D12  
 P45 = D11  
 P44 = D10  
 P43 = D09  
 P42 = D08  
 P41 = D07  
 P40 = D06  
 P39 = D05  
 P38 = D04  
 P37 = D03  
 P36 = D02  
 P35 = D01  
 P34 = D00

*Control signals*

P10 = OE  
 P9 = WE  
 P8 = RDY  
 P7 = CE  
 P4 = WP  
 P33 = A22  
 P32 = A21  
 P31 = A20  
 P30 = A19  
 P29 = A18  
 P28 = A17  
 P27 = A16  
 P26 = A15  
 P25 = A14  
 P24 = A13  
 P23 = A12  
 P22 = A11  
 P21 = A10  
 P20 = A09  
 P19 = A08  
 P18 = A07  
 P17 = A06  
 P16 = A05  
 P15 = A04  
 P14 = A03  
 P13 = A02  
 P12 = A01  
 P11 = A00

We apologize for the few infos right now present in this manual, our first target is give to customers all the infos necessary for basic NAND / NOR operation.

We remember also that SQUIRT QSB TRINITY and CORONA are already compatible with PROGSKEET, with the NAND ADAPTOR you can easy connect them to progskeet to read and write nands by FCC cables. The DUAL NAND function will be added soon and the switch & led on slave board will be able to notificcate the status of NAND / NOR selection.

We plan a major update of this manual during the week of 22th oct.

Thanks for the your patience