

13/05/2022

EXAMPLE JCD FOR START-UP MODEL

Specifications :

Batterie	3S	
I charge =	2,5	A
Vbat-CH-REG =	12,6	V
Pbat Maxi =	31,5	W
Rend chargeur =	0,85	
Pin-CH =	37,1	W
P-appareil (hypothèse) =	15	W
P =total Wall plug =	52,1	W

(Wall plug 60W Maxi)

The battery of the device must also be able to charge another battery, connected to the USB-C-PD connector which normally receives the wall plus USB-C-PD.

Programming the DEMOBOARD, step by step :


STEP 1 : Hard Config :

Jumper JP2 3S	selected
Jumper JP4 3S Temperature sens	selected

STEP 2 : Solft Config :

→ I launch the GUI application without connecting anything to the PC

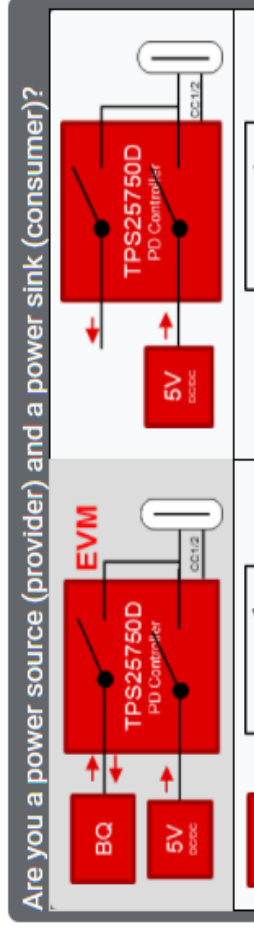
I configure the GUI according to the set specifications

 TPS25750 Application Customization Tool

TPS25750 Application Customization Tool

Documents ▾ Help ▾

1. Select your configuration:



2. What is the maximum power that can be sourced?

- ☐ 15W (5V)
- ☒ 27W (9V)
- ☐ 45W (15V)
- ☐ 60W (20V)
- ☐ 100W (20V)

3. What is the required sink power or power consumed?

- ☐ 15W (5V)
- ☐ 27W (9V)
- ☐ 45W (15V)
- ☒ 60W (20V)
- ☐ 100W (20V)

4. What is the preferred power role?

- ☐ Power source (provider)
- ☒ Power sink (consumer)

5. Do you have a preferred data role?

- ☐ No
- ☐ Host (PC, hub, etc.) to which devices are connected - Downstream Facing Port (DFP)
- ☒ Device (USB flash drive, USB monitor, USB mouse, etc.) that connects to another USB Host - Upstream Facing Port (UFP)
- ☐ Host & Device - Dual Role Port (DRP)

6. What is the supported USB Highest Speed?

- ☐ No USB data is being used
- ☒ USB 2
- ☐ USB 3.2 Gen 1
- ☐ USB 3.2 Gen 2

7. Do you have a Vendor ID provided by the USB-IF?

- ☐ Yes, enter here as a 4-digit hexadecimal number:

0x

e.g. 0a8f, BC23

- ☒ No, use the TI Vendor ID in the Vendor Information File (VIF)

8. Do you have a desired Product ID?

- ☐ Yes, enter here as a 4-digit hexadecimal number:

0x

e.g. 123d, FA10

- ☒ No, use "0x0000" as the Product ID

Battery Charger Configuration

9. Select the battery charger component to integrate:

- ☒ BQ25790 or BQ25792
- ☐ BQ25713
- ☐ BQ25731

10. What is the battery charging voltage?

12.6

V

Valid values: 3.00V - 18.80V

11. What is the battery charging current?

 A

Valid values: 0.050A - 5.000A

12. What is the charge termination current?

 A

Valid values: 0.040A - 1.000A

13. What is the pre-charge current?

 A

Valid values: 0.040A - 2.000A

STEP 3 : Generation of the binary file :



New Configuration

Advanced Configuration

Export Settings

Import Settings

Browse





Generate Low Region Binary

Generate Full Flash Binary

Flash To Device From Current Configuration

Flash To Device From Binary File

Select Binary File

Browse

binary file generation

binary file generation

JCD : From there I can generate 2 binary files. I choose which one ?

Case 1 :

"Generate Low Region Binary "

Choice ".C file"

→ I call my binary file : " example JCD CHG 1"

It is affected by the extension ".c"

File : **example JCD CHG 1.c**

"Generate Low Region Binary "

Choice "Binary"

File : **example JCD CHG 1.bin**

Case 2 :

"Generate Full Flash Binary "

File : example JCD CHG 1FF.c

File : example JCD CHG 1.bin

→ Chuck, please give me your answer : From there, which file do I retain?

STEP 4 :

Reminder of guidelines :

Online **Chuck Branch** 21 hours
ago in reply to *jean-claude*
DESCHAMPS

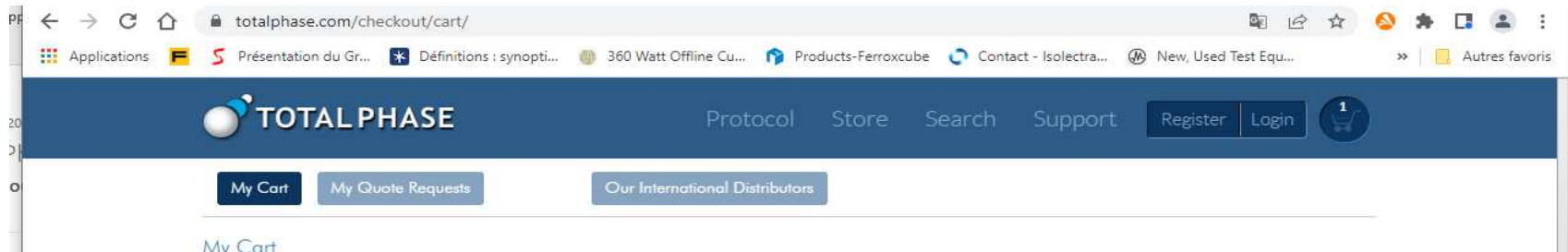
[TI Mastermind 22440 points](#)

Jean,

The TPS25750 GUI direct write does not work with the Aardvark, it is designed to only work directly with the TPS25750EVM.. You will need to save off a full flash binary using the GUI and then use the Flash Center application from totalphase to download it to the USB-PD-CHG-EVM

* I have find : <https://www.totalphase.com/products/flash-center/>

* I created my account according to the instructions given by "Total Phase".



	Product Name	Unit Price	Qty	Subtotal	
	Aardvark I2C/SPI Host Adapter Part Number: TP240141	\$330.00	<input type="text" value="1"/>	\$330.00	
Continue Shopping Request for Quote Clear Shopping Cart Update Shopping Cart					

Customers with your items frequently purchase:



I2C/SPI Activity Board

Price: \$60.00

[Add to Cart](#)



Promira Serial Platform

From: \$900.00
To: \$4,950.00

[Add to Cart](#)



I2C Development Kit

Price: \$705.00

[Add to Cart](#)

Subtotal \$330.00

Grand Total \$330.00

[Proceed to Checkout](#)


☐

Promira Serial
Pl...


☐

I2C/SPI Activity
Boa...


☐

Level Shifter
Boa...


☐

10-Pin Grabber
Cl...


☐

10-Pin Split
Cabl...

[Add Checked Items to Shopping Cart](#)

Obviously, since the EEPROM is on the master bus of the TPS25750 which is connected to BQ25792 and to the EEPROM, and to the Aardvark connector, you have to go through the AardVarkk connector and the module Aardvark I2C/SPI Host Adapter
Part Number: TP240141

Conclusion :

**If I want to be able to program the demoboard, I have to buy the AardVark adapter.
In the end, the USB2ANY adapter is therefore of no use!**

**Chuck , can you confirm it to me
If it is absolutely necessary il will buy it.**