

USBCPD Application Customization Tool

FileOptionsHelp

Questionnaire

Device Name:TPS25751

Change Base Bin File :

Choose File

No file chosen

Active Base Firmware : Default Bin File

Advanced Configuration

Reset Configuration

Flash To Device

Import Settings

Export

1) Select your TPS25751 configuration:

Are you a power source (provider) and a power sink (consumer)?

BQ

TPS25751D

VBUS

5V

TPS25751D

VBUS

BQ

TPS25751D

VBUS

5V

TPS25751D

VBUS

BQ

TPS25751B

VBUS

5V

TPS25751B

VBUS

BQ

TPS25751D

VBUS

5V

TPS25751D

VBUS

BQ

TPS25751B

VBUS

5V

TPS25751B

VBUS

Are you a power sink (consumer) only?

BQ

TPS25751D

VBUS

TPS25751D

VBUS

BQ

TPS25751B

VBUS

TPS25751B

VBUS

Are you a 5V @ 3A power source (provider) only?

5V

TPS25751D

VBUS

5V

TPS25751B

VBUS

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

15W (5V)

Questions

Select your TPS25751 configuration:

What is the maximum power that can be sourced?

What is the required sink power or power consumed?

What is the preferred power role?

What is the supported USB Highest Speed?

Do you have a preferred data role?

Does your device plan to support BC 1.2 and other legacy charging schemes?

Do you support Liquid Detection on the Type-C connector?

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

Do you have a desired Product ID?

Select the battery charger component to integrate:

Select the percentage above the negotiated PD Contract current for setting th

Select the percentage below the negotiated PD Contract voltage for setting th

What is the battery charging voltage?

What is the battery charging current?

What is the charge termination current?

What is the pre-charge current?

What is the dead battery clear threshold?

Powered By: S&S Components

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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) 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

Questions

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6) 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)

7) Does your device plan to support BC 1.2 and other legacy charging schemes?

No

BC 1.2 CDP

BC 1.2 DCP Only

BC 1.2 DCP, 1.2 V and 2.7 V Charging

8) Do you support Liquid Detection on the Type-C connector?

Yes

No

9) Do you have a Vendor ID provided by the USB-IF?

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

0x0000

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

10) Do you have a desired Product ID?

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

Questions

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10) Do you have a desired Product ID?

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

0x0000

No, use "0x0000" as the Product ID

Battery Charger Configuration

11) Select the battery charger component to integrate:

BQ25790 or BQ25792 or BQ25798

BQ25713

BQ25731

BQ25756

BQ25756E

12) Select the percentage above the negotiated PD Contract current for setting the INDPM on the battery charger:

0% - INDPM is set to the negotiated PD Contract Current

5% - INDPM is set to 5% above negotiated PD Contract Current

10% - INDPM is set to 10% above negotiated PD Contract Current

15% - INDPM is set to 15% above negotiated PD Contract Current

20% - INDPM is set to 20% above negotiated PD Contract Current

13) Select the percentage below the negotiated PD Contract voltage for setting the VINDPM on the battery charger:

5% - VINDPM is set to 5% below negotiated PD Contract Voltage

10% - VINDPM is set to 10% below negotiated PD Contract Voltage

15% - VINDPM is set to 15% below negotiated PD Contract Voltage

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13) Select the percentage below the negotiated PD Contract voltage for setting the VINDPM on the battery charger?

☒ 5% - VINDPM is set to 5% below negotiated PD Contract Voltage

☐ 10% - VINDPM is set to 10% below negotiated PD Contract Voltage

☐ 15% - VINDPM is set to 15% below negotiated PD Contract Voltage

☐ 20% - VINDPM is set to 20% below negotiated PD Contract Voltage

14) What is the battery charging voltage?

0.000

V

15) What is the battery charging current?

0.000

A

16) What is the charge termination current?

0.000

A

17) What is the pre-charge current?

0.000

A

18) What is the dead battery clear threshold?

0.000

V

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