Application Note How to Use TPS6598x I²C to Control TUSB564 in Monitor Design



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ABSTRACT

The TPS65987D and SuperSpeed multiplexer TUSB564 design is common in UFP applications, such as a monitor and docking. The TPS65987 I2C1 and I2C3 ports can both work as an I²C controller directly to TUSB564 instead of using an external controller to do the same. This structure helps to design reliable systems without external MCU dependencies and the design reduces the system latencies in the different pin assignment selection. This application note demonstrates the settings on how to fill TUSB564 I²C indices into the *Application Customization Tool*.

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| Figure 2-17. DisplayPort Exited C CC_2 PD. 1 Figure 2-18. DisplayPort Exited C CC_2 PD. 1 Figure 2-19. Detach. 1 Figure 2-20. Detach. 1 Figure 2-21. DisplayPort Pin Config E CC_1 PD. 1 Figure 2-22. DisplayPort Pin Config E CC_2 PD. 1 | Figure 2-16. DisplayPort Exited C CC 1 PD | 10 |
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1



1 Introduction

The TPS65987D device contains several different digital interfaces which can communicate with other devices. The available interfaces include three I²C ports (I2C1 is a Controller|Target, I2C2 is a Target, and I2C3 is a Controller). The TUSB564 device is a VESA USB Type-C[®] alternate mode redriving switch supporting USB 3.1 and DisplayPort 1.4 for sink port. Two registers, 0x0A and 0a13, must be updated in different USB and DisplayPort assignments. The TUSB564 device does not natively support DisplayPort Sink assignment E, the AUX routing settings of TUSB564 are listed in Index 21 and 22. For more details about the registers, see the *TUSB564, HD3SS460 and TS3USBCA410 Pin Assignment C and E Implementation* application note.



2 How to set TUSB564 I²C in the Application Customization Tool

Configure a project and I²C controller background setting as discussed in the *Using I2C Master in TPS65987D* and *TPS65988 PD Controllers* application note. There are a total of 22 record indices in the *App Configuration Data Table* window as shown in the following images. During a Power On Reset event, the multiplexer is disabled. Therefore, data for the Record Indices 1 and 2 corresponding to these events have 0x000A and 0x8013.

| Application Cus | stomizati | ion Tool | | | | | _ | | |
|---------------------|------------|--------------------|-------------|-------|----------|-----------|------------------------|--------------|---------------|
| oject Binary Device | Settings | Adapter Debug | Documents I | Help | | | | | |
| Seneral Settings 12 | 2C Control | ler Events Devi | ce 1 | | | | | | |
| Ū | | | | | | | | | |
| | | | | | | GUI Buik | d Vorsion : | 6624 | |
| | | | | | | COLDUN | u version. | 0.0.24 | |
| | | | | | | Configura | ation File V | ersion : 6.6 | 5. 2 4 |
| Configuration | Mode | | | | | TUSB56 | 4 version 6 | 6 6 24 | |
| oomgaradon | mode | | | | | TUSB56 | Monitor | nit | |
| | | | | | | 103030 | ⁴ _WOHILOI. | pJr | |
| | | | | | | LISE to I | | antor · TIV | ^ |
| | | | | | | 000101 | 20/01 1/10 | upter. IIV | |
| | | | | | | | | | |
| | | | | | | | | | |
| Record index 0 | ~ | Record index 1 | (0x1) | | | | | | |
| Record index 1 | | | | | | | | | |
| Record index 2 | | | | | | | | | |
| Record index 3 | | | Field | | | Value | | | _ |
| Record index 4 | | | Field | | | value | | | |
| Record Index 5 | | Trigger Event | | Power | On Reset | | | | |
| Record index 6 | | Data Length | | 2 | | | | | T |
| Decord index 8 | | Data Longti | | 2 | | | | | |
| Record index 9 | | Slave Address Inde | x | 0 | | | | | ŀ |
| Record index 10 | | Data | | 0xa | | | | | |
| Record index 11 | \sim | | | | | | | | |
| Descend in desc 40 | | | | | | | | | |

Figure 2-1. Power On Reset on Register 0x0A

| | | | | | _ |
|---------------------|-----------|---------------------------|----------------|--------------------------------|----------|
| Application Cus | stomizat | tion Tool | | - 0 | > |
| piect Binary Device | Setting | s Adapter Debug Documents | Help | | |
| eneral Settings 12 | 2C Contro | Iler Events Device 1 | | | |
| | | | | GUI Build Version : 6.6.24 | |
| | | | | Configuration File Version : 6 | .6.24 |
| Configuration | Mode | | | TUSB564 version 6.6.24 | |
| Comgaration | would | | | TUCDEG4, Version 6.6.24 | |
| | | | | 103B304_Infonitor.pjt | |
| | | | | | |
| | | | | 000 to 120/01 TAdapter . Th | |
| | | | | | |
| | | | | | |
| Record index 0 | | Record index 2 (0x2) | | | |
| Record index 1 | <u></u> | | | | |
| Record index 2 | | | | | |
| Record index 3 | | | | | |
| Record index 4 | | Field | | Value | |
| Record index 5 | | Trigger Event | Power On Reset | | • |
| Record index 6 | | Data Length | 2 | | |
| Record index 8 | | Data Length | 2 | | • |
| Record index 9 | | Slave Address Index | 0 | | - |
| Record index 10 | | Data | 0x8013 | | |
| Record index 11 | \sim | | L | | |
| Descend loaders 40 | | | | | |

Figure 2-2. Power On Reset on Register 0x13



For Cable Attach CC_1 PD event data in the Record Indices 3 and 5 are 0x110A and 0x8013, respectively.

| Application Customiza | tion Tool | - 🗆 | \times |
|--|--|--|----------------|
| | | | |
| Project Binary Device Setting | is Adapter Debug Documents Help | | |
| General Settings I2C Contro | Device 1 | | |
| Configuration Mode | | GUI Build Version : 6.6.24 Configuration File Version : TUSB564, version 6.6.24 TUSB564_Monitor.pjt USB to I2C/SPI Adapter : | 6.6.24 TIVA |
| Record index 0 Record index 1 Record index 2 | Record index 3 (0x3) | | |
| Record index 3 | Field | Value | |
| Record index 5 | | | |
| Record index 6 | I rigger Event | Cable Attach CC_1 PD | |
| Record index 7 | Data Length | 2 | ÷ |
| Record index 8 | Slave Address Index | 0 | |
| Record index 9 | Dete | | |
| Record index 10 | Data | 0x110a | |
| | | | |
| Application Customization Project Binary Device Setting General Settings 12C Control | tion Tool Is Adapter Debug Documents Help Diler Events Device 1 | | × |
| | | GUI Build Version : 6.6.24 | |
| Configuration Mode | | Configuration File Version : TUSB564, version 6.6.24 | 6.6.24 |
| | | TUSB564_Monitor.pjt | |
| | | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : 1 | TIVA |
| | | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : 1 | TIVA |
| | | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : 1 | TVA |
| Record index 0 | Record index 5 (0x5) | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : T | TVA |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 | Record index 5 (0x5) | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : T | IVA |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 | Record index 5 (0x5) Field | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : T | TIVA |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 7 | Record index 5 (0x5) Field Trigger Event | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : T Value Cable Attach CC_1 PD | |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 6 Record index 7 Percord index 8 | Record index 5 (0x5) Field Trigger Event Data Length | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : T Value Cable Attach CC_1 PD 2 | TIVA |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 5 Record index 7 Record index 8 Record index 9 | Record index 5 (0x5) Field Trigger Event Data Length Slave Address Index | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : T Value Cable Attach CC_1 PD 2 0 | |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 7 Record index 7 Record index 9 Record index 10 | Record index 5 (0x5) Field Trigger Event Data Length Slave Address Index Data | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : T Value Cable Attach CC_1 PD 2 0 0 0x8013 | |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 7 Record index 7 Record index 9 Record index 10 Record index 11 | Record index 5 (0x5) Field Trigger Event Data Length Slave Address Index Data | TUSB564_Monitor.pjt USB to I2C/SPI Adapter : T Value Cable Attach CC_1 PD 2 0 0 0x8013 | |

Figure 2-4. Cable Attach CC_1 PD

4



For Cable Attach CC_2 PD event data in the Record Indices 4 and 6 are 0x150A and 0x8013, respectively.

| Application Custom Project Binary Device Se | vization Tool | | | | | |
|---|--|--|---|---|--|--------------------------------------|
| Project Binary Device Se | | | | _ | | \times |
| Project billary Device Se | ttings Adaptor Dobug D | ocumente Help | | | | |
| 0 | antrollar Evente Debug D | ocuments help | | | | |
| General Settings 120 Co | Device 1 | | | | | |
| | | | | | | |
| | | | GUI Build | Version · | 6624 | |
| | | | Sof Build | version. | 0.0.24 | |
| | | | Configura | tion File V | oroion : 6 (| 2.04 |
| | | | Conligura | uon File v | ersion. o.c | 0.24 |
| Configuration Mo | de | | TUSB564 | 4, version 6 | 6.6.24 | |
| | | | TUSB564 | 4_Monitor. | pjt | |
| | | | | | | |
| | | | USB to I2 | C/SPIAd | apter : TIV | A |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Record index 0 | Becard index 4 (1 | Dv4) | | | | |
| Record index 1 | | 5,4) | | | | |
| Record index 2 | | | | | | |
| Record index 3 | | | | | | |
| Record index 4 | Fiel | ld | Value | | | |
| Record index 5 | Trigger Event | Cable Attac | h CC_2 PD | | | - |
| Record index 6 | Data Length | 2 | | | | |
| Record index 8 | | | | | | |
| Record index 9 | Slave Address Index | 0 | | | | • |
| Record index 10 | Data | 0x150a | | | | |
| Record index 11 | ~ | L. | | | | |
| | | | | | | |
| Application Custom Project Binary Device Se | nization Tool ettings Adapter Debug D | ocuments Help | | | | × |
| Application Custom Project Binary Device Se General Settings 12C Co | nization Tool ettings Adapter Debug D ontroller Events Device 1 | ocuments Help | | - | | × |
| Application Custom Project Binary Device Se General Settings 12C Co | nization Tool ettings Adapter Debug D ontroller Events Device 1 | locuments Help | | - | | × |
| Application Custom Project Binary Device Se General Settings 12C Co | nization Tool ettings Adapter Debug D ontroller Events Device 1 | locuments Help | | | 6624 | × |
| Application Custom Project Binary Device Se General Settings 12C Co | nization Tool ettings Adapter Debug D ontroller Events Device 1 | locuments Help | GUI Build | | 6.6.24 | × |
| Application Custom Project Binary Device Se General Settings 12C Co | nization Tool ettings Adapter Debug D ontroller Events Device 1 | ocuments Help | GUI Build | | 6.6.24 | × |
| Application Custom Project Binary Device Se General Settings I2C Co | nization Tool ettings Adapter Debug D ontroller Events Device 1 | ocuments Help | GUI Build Configura | J Version : ation File V | 6.6.24 (ersion : 6. | 6.24 |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo | nization Tool ettings Adapter Debug D ontroller Events Device 1 de | ocuments Help | GUI Build Configura TUSB56 | | 6.6.24 /ersion : 6.0 6.6.24 | 6.24 |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo | nization Tool ettings Adapter Debug D ontroller Events Device 1 de | ocuments Help | GUI Build Configura TUSB56- TUSB56- | | 6.6.24 /ersion : 6.0 6.6.24 pjt | × 6.24 |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo | nization Tool ettings Adapter Debug D ontroller Events Device 1 de | ocuments Help | GUI Build Configura TUSB56- TUSB56- | | 6.6.24 /ersion : 6. 6.6.24 pjt | 6.24 |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo | nization Tool ettings Adapter Debug D ontroller Events Device 1 de | ocuments Help | GUI Build Configura TUSB56 TUSB56 USB to 12 | | 6.6.24 /ersion : 6.1 6.6.24 pjt lapter : TIV | × 6.24 ⁄A |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo | nization Tool ettings Adapter Debug D ontroller Events Device 1 de | ocuments Help | GUI Build Configura TUSB56 TUSB56 USB to 12 | | 6.6.24 /ersion : 6. 6.6.24 pjt lapter : TIV | × 6.24 ⁄A |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo | nization Tool ettings Adapter Debug D ontroller Events Device 1 de | ocuments Help | GUI Build Configura TUSB56 TUSB56 USB to 12 | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6. 6.6.24 pjt lapter : TIV | Х 6.24 ′А |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo | nization Tool ettings Adapter Debug D ontroller Events Device 1 de | ocuments Help | GUI Build Configura TUSB56 TUSB56 USB to 12 | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6. 6.6.24 pjt lapter : TIV | × 6.24 ⁄A |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo | nization Tool ettings Adapter Debug D ontroller Events Device 1 de Record index 6 (0 | ocuments Help | GUI Build Configura TUSB56 TUSB56 USB to 12 | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6.1 6.6.24 pjt lapter : TIV | 6.24 |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo | Adapter Debug D ontroller Events Device 1 de | ocuments Help | GUI Build Configura TUSB56 TUSB56 USB to 12 | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6. 6.6.24 pjt lapter : TIV | 6.24 |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo | nization Tool ettings Adapter Debug D ontroller Events Device 1 de Record index 6 (0 | ocuments Help | GUI Build Configura TUSB56- TUSB56- USB to 12 | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6. 6.6.24 pjt lapter : TIV | 6.24 ⁄A |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo Record index 0 Record index 1 Record index 2 Record index 3 Becord index 4 | hization Tool ettings Adapter Debug D ontroller Events Device 1 de | Dx6) | GUI Build Configura TUSB56 TUSB56 USB to 12 | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6.0 6.6.24 pjt lapter : TIV | 6.24 |
| Application Custom Project Binary Device Se General Settings I2C Co Configuration Mo Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 4 Record index 5 | Adapter Debug D ontroller Events Device 1 de | Ox6) | GUI Build Configura TUSB56- TUSB56- USB to 12 Value | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6. 6.6.24 pjt lapter : TIV | 6.24 |
| Application Custom Project Binary Device Se General Settings I2C Co Configuration Mo Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 5 Record index 6 | Adapter Debug D ontroller Events Device 1 de Record index 6 (0 Fie Trigger Event | Dx6) | GUI Build Configura TUSB56- TUSB56- USB to 12 Value h CC_2 PD | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6. 6.6.24 pjt lapter : TIV | 6.24 |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 5 Record index 7 | Adapter Debug D ontroller Events Device 1 de Record index 6 (0 Fie Trigger Event Data Length | Dx6) | GUI Build Configura TUSB56- TUSB56- USB to 12 Value h CC_2 PD | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6.0 6.6.24 pjt lapter : TIV | 6.24 |
| Application Custom Project Binary Device Se General Settings 12C Co Configuration Mo Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 5 Record index 5 Record index 7 Record index 8 Becord | Adapter Debug D ontroller Events Device 1 de Record index 6 (0 Fie Trigger Event Data Length Slave Address Index | Dx6) | GUI Build Configura TUSB56- TUSB56- USB to 12 Value h CC_2 PD | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6. 6.6.24 pjt lapter : TIV | 6.24 |
| Application Custom Project Binary Device Se General Settings 12C Ca Configuration Mo Record index 0 Record index 1 Record index 2 Record index 3 Record index 3 Record index 4 Record index 5 Record index 5 Record index 5 Record index 5 Record index 7 Record index 8 Record index 8 Record index 8 Record index 9 Record index 10 | Adapter Debug D ontroller Events Device 1 de Record index 6 (0 Fie Trigger Event Data Length Slave Address Index Data | Dx6) | GUI Build Configura TUSB56- TUSB56- USB to 12 Value h CC_2 PD | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6. 6.6.24 pjt lapter : TIV | 6.24 |
| Application Custom Project Binary Device Se General Settings 12C Cu Configuration Mo Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 5 Record index 5 Record index 7 Record index 8 Record index 8 Record index 10 Record index 10 Record index 11 | Adapter Debug D ontroller Events Device 1 de Record index 6 (1) Fie Trigger Event Data Length Slave Address Index Data | Ox6) Id Cable Attac 2 0 0x8013 | GUI Build Configura TUSB56- TUSB56- USB to 12 Value h CC_2 PD | ation File V 4, version (4_Monitor. 2C/SPI Ad | 6.6.24 /ersion : 6. 6.6.24 pjt lapter : TIV | 6.24 |

Figure 2-6. Cable Attach CC_2_PD



For DisplayPort Pin Configuration A, C or E CC_1 PD event the data sent to the MUX in the Record Indices 7 and 8 are 0x120A and 0x8013, respectively.

| Application Customiza | tion Tool | - T X |
|---|--|---|
| | | |
| Project Binary Device Setting | ds Adapter Debug Documents Help | |
| General Settings | Device 1 | |
| | | |
| | | GUI Build Version : 6.6.24 |
| | | |
| | | Configuration File Version : 6.6.24 |
| Configuration Mode | | TUSB564, version 6.6.24 |
| | | TUSB564_Monitor.pjt |
| | | |
| | | USB to I2C/SPI Adapter : TIVA |
| | | |
| | | |
| Record index 0 | Period index \overline{Z} (0xZ) | |
| Record index 0 | | |
| Record index 2 | | |
| Record index 3 | Field | Value |
| Record index 5 | Trigger Event | Displayport Pin Config A C or E CC 1 PD |
| Record index 6 | | |
| Record index 7 Record index 8 | | 2 |
| Record index 9 | Slave Address Index | 0 |
| Record index 10 | Data | 0x120a |
| Record index 11 | | |
| | | |
| Application Customizat | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD — □ × |
| Application Customizat Project Binary Device Setting | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD — □ × |
| Application Customizat Project Binary Device Setting General Settings I2C Control | Figure 2-7. DisplayPort tion Tool is Adapter Debug Documents Help oller Events Device 1 | Pin Config A, C or E CC_1 PD — □ × |
| Application Customizat Project Binary Device Setting General Settings I2C Control | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - □ × GUI Build Version : 6.6.24 |
| Application Customizat Project Binary Device Setting General Settings I2C Control | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - |
| Application Customizat Project Binary Device Setting General Settings 12C Contro Configuration Mode | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - |
| Application Customizat Project Binary Device Setting General Settings I2C Contro Configuration Mode | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - |
| Application Customizat Project Binary Device Setting General Settings I2C Contro Configuration Mode | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - |
| Application Customizat Project Binary Device Setting General Settings I2C Contro Configuration Mode | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD — □ × GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to I2C/SPI Adapter : TIVA |
| Application Customizat Project Binary Device Setting General Settings I2C Contro Configuration Mode | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - |
| Application Customizat Project Binary Device Setting General Settings 12C Contro Configuration Mode | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - C × GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to I2C/SPI Adapter : TIVA |
| Application Customizat Project Binary Device Setting General Settings 12C Contro Configuration Mode | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - C × GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pjt USB to I2C/SPI Adapter : TIVA |
| Application Customizat Project Binary Device Setting General Settings 12C Control Configuration Mode | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - C × GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pjt USB to I2C/SPI Adapter : TIVA |
| Application Customization Project Binary Device Setting General Settings I2C Control Configuration Mode Record index 7 Record index 8 Becord index 9 | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - C × GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to I2C/SPI Adapter : TIVA |
| Application Customizat Project Binary Device Setting General Settings I2C Contro Configuration Mode Record index 7 Record index 8 Record index 9 Record index 10 | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - C × GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to I2C/SPI Adapter : TIVA |
| Application Customizat Project Binary Device Setting General Settings I2C Control Configuration Mode Record index 7 Record index 7 Record index 9 Record index 10 Record index 11 Re | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - C × GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to I2C/SPI Adapter : TIVA |
| Application Customizat Project Binary Device Setting General Settings I2C Control Configuration Mode Record index 7 Record index 8 Record index 9 Record index 10 Record index 11 Record index 12 Record index 13 | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD |
| Application Customizat Project Binary Device Setting General Settings I2C Control Configuration Mode Record index 7 Record index 8 Record index 9 Record index 10 Record index 11 Record index 12 Record index 13 Record index 14 | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - C × GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to I2C/SPI Adapter : TIVA Value Value |
| Application Customizat Project Binary Device Setting General Settings I2C Contro Configuration Mode Record index 7 Record index 4 Record index 10 Record index 11 Record index 12 Record index 13 Record index 14 Record index 15 Record index 15 Record index 16 | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - C × GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to 12C/SPI Adapter : TIVA |
| Application Customization Project Binary Device Setting General Settings I2C Control Configuration Mode Record index 7 Record index 7 Record index 8 Record index 9 Record index 10 Record index 11 Record index 12 Record index 13 Record index 13 Record index 14 Record index 15 Record index 17 | Figure 2-7. DisplayPort | Pin Config A, C or E CC_1 PD - C × GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to I2C/SPI Adapter : TIVA |

Figure 2-8. DisplayPort Pin Config A, C or E CC_1 PD



For DisplayPort Pin Configuration A, C or E CC_2 PD event the data sent to the MUX in the Record Indices 9 and 10 are 0x160A and 0x8013, respectively.

| eneral Settings | 2C Contro | ller Events Device 1 | ~ * | |
|--|-----------|--|---|------|
| | | | GUI Build Version : 6.6.24 | |
| | | | Configuration File Version : 6.6 | 6.24 |
| Configuration | Mode | | TUSB564, version 6.6.24 | |
| - | | | TUSB564_Monitor.pjt | |
| | | | | |
| | | | USB to I2C/SPI Adapter : TIV | /A |
| Record index 0 Record index 1 Record index 2 | ^ | Record index 9 (0x9) | USB to I2C/SPI Adapter : TIV | /A |
| Record index 0 Record index 1 Record index 2 Record index 3 | ^ | Record index 9 (0x9) | USB to I2C/SPI Adapter : TIV | /A |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 | ^ | Record index 9 (0x9) Field | USB to I2C/SPI Adapter : TIV | /A |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 5 Record index 5 Record index 6 | ^ | Record index 9 (0x9) Field Trigger Event | USB to I2C/SPI Adapter : TIV | /A |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 5 Record index 6 Record index 7 | ^ | Record index 9 (0x9) Field Trigger Event Data Length | USB to I2C/SPI Adapter : TIV | /A |
| Record index 0 Record index 1 Record index 2 Record index 4 Record index 5 Record index 6 Record index 7 Record index 8 | ^ | Record index 9 (0x9) Field Trigger Event Data Length Slave Address Index | USB to I2C/SPI Adapter : TIV | |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 6 Record index 7 Record index 9 Record index 10 | ^ | Record index 9 (0x9) Field Trigger Event Data Length Slave Address Index Data | USB to I2C/SPI Adapter : TIV. Value Displayport Pin Config A,C or E CC_2 PD 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | |
| Record index 0 Record index 1 Record index 2 Record index 3 Record index 4 Record index 5 Record index 6 Record index 7 Record index 9 Record index 10 Record index 11 | ~ | Record index 9 (0x9) Field Trigger Event Data Length Slave Address Index Data | USB to I2C/SPI Adapter : TIV. Value Displayport Pin Config A,C or E CC_2 PD 2 0 0 0 0x160a | |

| gett Binary Device Settings Adapter Debug Documents Help eneral Settings I2C Controller Events Device 1 GUI Build Version : 6.6.24 Configuration Mode Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564, version 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to I2C/SPI Adapter : TIVA Record index 0 Field Value Record index 2 Field Value Record index 5 Field Value Record index 6 Field Value Record index 7 Field Value Record index 8 O O Record index 8 O Data Length 2 Stare Address Index O Data Ox8013 | Application Cus | stomizati | ion Tool | | | - 🗆 X |
|---|--|------------|--------------------|-----------|------|---|
| eneral Settings 12C Controller Events Device 1 GUI Build Version : 6.6.24 Configuration Mode Configuration Mode TUSB564, version 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to 12C/SPI Adapter : TIVA | oject Binary Device | e Settings | Adapter Debug | Documents | Help | |
| Configuration Mode GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to 12C/SPI Adapter : TIVA Record index 1 Record index 4 Record index 4 Field Value Value Field Value Trigger Event Displayport Pin Config C CC_2 PD Data Length 2 Stave Address Index 0 Data 0x8013 | General Settings | 2C Control | ler Events Dev | ice 1 | | |
| Configuration Mode TUSB564, version 6.6.24 TUSB564_Monitor.pit USB to I2C/SPI Adapter : TIVA Record index 0 Image: Configuration Mode Record index 1 Record index 10 (0xa) Record index 3 Field Value Value Field Value Trigger Event Displayport Pin Config C CC_2 PD Data Length 2 Slave Address Index 0 Record index 10 0 Record index 11 Value | | | | | | GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 |
| Record index 0 Record index 1 Record index 1 Record index 4 Record index 5 Record index 6 Record index 7 Record index 8 Record index 8 Record index 8 Record index 1 Record index 1 Record index 6 Record index 7 Record index 7 Record index 8 Record index 10 Record index 10 Recor | Configuration | Mode | | | | TUSB564 version 6.6.24 |
| Record index 0 Record index 1 Record index 2 Record index 2 Record index 2 Record index 4 Record index 4 Record index 5 Record index 5 Record index 6 Record index 7 Record index 7 Record index 8 Record index 8 Record index 8 Record index 8 Record index 8 Record index 8 Record index 10 Record | oomgaradon | mode | | | | TUSDEGA Monitornit |
| Record index 0 Record index 1 Record index 2 Record index 2 Record index 3 Record index 4 Record index 4 Record index 5 Record index 6 Record index 7 Record index 7 Record index 8 Record index 9 Record index 10 Record index 10 Re | | | | | | 1056504_Moliitor.pjt |
| Record index 0 Record index 1 Record index 2 Record index 2 Record index 3 Record index 4 Record index 5 Record index 5 Record index 7 Record index 7 Record index 8 Record index 8 Record index 9 Record index 10 Record index 10 Record index 11 | | | | | | USB to I2C/SPI Adapter : TIVA |
| Record index 4 Field Value Record index 5 Trigger Event Displayport Pin Config C CC_2 PD Record index 7 Data Length 2 Record index 9 Slave Address Index 0 Record index 10 Data 0x8013 | Record index 0 Record index 1 Record index 2 Record index 3 | ^ | Record index 1 | 0 (0xa) | | |
| Record index 5 Record index 6 Record index 7 Record index 9 Record index 10 Record index 10 Record index 11 Record index 1 | Record index 4 | | | Field | | Value |
| Record index 6 Record index 7 Record index 9 Record index 9 | Record index 5 | | Trigger Event | | Γ | Displayport Pin Config C CC 2 PD |
| Record index 7 Record index 8 Record index 9 Record index 9 | Record index 6 | | Data Longth | | | |
| Record index 9 Record index 10 Record index 11 Record index 11 | Record index 8 | | Data Length | | | 2 |
| Record index 10 Data 0x8013 | Record index 9 | | Slave Address Inde | ex | (| 0 |
| Record index 11 | Record index 10 | | Data | | | 0x8013 |
| | Record index 11 | \sim | | | L | |





For DisplayPort Pin Configuration B, D or F CC_1 PD event the data sent to the MUX in the Record Indices 11 and 12 can be 0x030A and 0x8013, respectively.

| | | · · · · · · · · · · · · · · · · · · · | |
|------------------------------------|-----------|---------------------------------------|---|
| Application Cus | tomizat | tion Tool | - 🗆 X |
| Dreiset Binery Device | Ootting | a Adaptar Dabug Desumenta Hela | |
| Project Binary Device | Setting | s Adapter Debug Documents Help | |
| General Settings | 2C Contro | Device 1 | |
| | | | |
| | | | GUI Build Version : 6.6.24 |
| | | | |
| | | | Configuration File Version : 6.6.24 |
| Configuration | Mode | | TUSB564 version 6.6.24 |
| oomgalation | mode | | TUSE564 Monitor pit |
| | | | 103D304_Wolltor.pt |
| | | | LISB to I2C/SPI A deptor - TI\/A |
| | | | |
| | | | |
| | | | |
| Record index 3 | | Record index 11 (0vb) | |
| Record index 4 | | | |
| Record index 5 | | | |
| Record index 6 | | Field | Value |
| Record index 8 | | | |
| Record index 9 | | Trigger Event | Displayport Pin Conlig B,D or F CC_1 PD |
| Record index 10 | | Data Length | 2 |
| Record index 11 Record index 12 | | Slave Address Index | 0 |
| Record index 13 | | Data | 0x130a |
| Record index 14 | \sim | | |
| Application Customered | tomizat | ion Tool | - D × |
| General Settings 12 | C Control | ller Events Device 1 | |
| Seneral Settings | | Device 1 | |
| | | | |
| | | | GUI Build Version : 6.6.24 |
| | | | |
| | | | Configuration File Version : 6.6.24 |
| Configuration | Mode | | TUSB564, version 6.6.24 |
| | | | TUSB564_Monitor.pjt |
| | | | |
| | | | USB to I2C/SPI Adapter : TIVA |
| | | | |
| | | | |
| | | | |
| Record index 3 | ~ | Record index 12 (0xc) | |
| Record index 4 | | | |
| Record index 6 | | | |
| Record index 7 | | Field | Value |
| Record index 8 | | Trigger Event | Displayport Pin Config B,D or F CC_1 PD |
| Record index 9 Record index 10 | | Data Length | 2 |
| Record index 11 | | Langer Longer | |
| | | Clave Address Index | |
| Record index 12 | | Slave Address Index | 0 |
| Record index 12 Record index 13 | | Slave Address Index Data | 0 0x8013 |

Figure 2-12. DisplayPort Pin Config B,D or F CC_1 PD



For DisplayPort Pin Configuration B, D or F CC_2 PD event the data sent to the MUX in the Record Indices 13 and 14 are 0x070A and 0x8013, respectively.

| Application Cus | stomizat | ion Tool | | — | | \times |
|------------------------------------|--------------|---------------------------|---|-------------------|-----------------|----------|
| roject Binary Device | Setting | s Adapter Debug Documents | Help | | | |
| General Settings 2 | 2C Contro | ller Events Device 1 | | | | |
| | | | GUI E | 3uild Version : 6 | 6.6 .2 4 | |
| | | | Confi | guration File V | ersion : 6.6 | 5.24 |
| Configuration | Mode | | TUSE | 3564, version 6 | 6.6.24 | |
| 0 | | | TUSE | 3564_Monitor.p | ojt | |
| | | | USB | to I2C/SPI Ada | apter : TIV/ | ٩ |
| Record index 3 | ^ | Record index 13 (0xd) | | | | |
| Record index 5 | | | | | | |
| Record index 6 Record index 7 | | Field | Value | | | |
| Record index 8 | | Trigger Event | Displayport Pin Config B D or E CC 2 PD | | | _ |
| Record index 9 | | Data Longth | | | | |
| Record index 10 Record index 11 | | | 2 | | | |
| Record index 12 | | Slave Address Index | 0 | | | - |
| Record index 13 | | Data | 0x170a | | | |
| Record index 14 | \checkmark | | L | | | |



| . | | | | | | |
|--|------------|---|--|----------------------|-----------------|-------------|
| Application Cus | tomizati | ion Tool | | _ | | \times |
| oject Binary Device | Settings | Adapter Debug Documents | Help | | | |
| General Settings | 2C Control | ler Events Device 1 | | | | |
| | | | | GUI Build Version : | 6.6 .2 4 | |
| | | | | Configuration File V | ersion : 6.6 | 6.24 |
| Configuration | Mode | | | TUSB564, version 6 | .6.24 | |
| - | | | | TUSB564_Monitor. | ojt | |
| | | | | USB to I2C/SPI Ad | apter : TIV | ٩ |
| | | | | | | |
| Record index 3 | ^ | Record index 14 (0xe) | | | | |
| Record index 3 Record index 4 Record index 5 | ^ | Record index 14 (0xe) | | | | |
| Record index 3 Record index 4 Record index 5 Record index 6 Record index 7 | ^ | Record index 14 (0xe) | | Value | | |
| Record index 3 Record index 4 Record index 5 Record index 6 Record index 7 Record index 8 | ^ | Record index 14 (0xe) | Displayport Pin Config B.D or F CC 2 | Value | | - |
| Record index 3 Record index 4 Record index 5 Record index 6 Record index 7 Record index 8 Record index 9 Record index 10 | ^ | Record index 14 (0xe) Field Trigger Event | Displayport Pin Config B,D or F CC_2 | Value PD | | • |
| Record index 3 Record index 4 Record index 5 Record index 6 Record index 7 Record index 8 Record index 9 Record index 10 Record index 11 | ^ | Record index 14 (0xe) Field Trigger Event Data Length | Displayport Pin Config B,D or F CC_2 | Value PD | | |
| Record index 3 Record index 4 Record index 5 Record index 6 Record index 7 Record index 8 Record index 9 Record index 10 Record index 11 Record index 12 | ^ | Record index 14 (Oxe) Field Trigger Event Data Length Slave Address Index | Displayport Pin Config B,D or F CC_2 2 0 | Value PD | | V A V |
| Record index 3 Record index 4 Record index 5 Record index 6 Record index 7 Record index 7 Record index 9 Record index 10 Record index 11 Record index 12 Record index 13 | ^ | Record index 14 (Oxe) Field Trigger Event Data Length Slave Address Index Data | Displayport Pin Config B,D or F CC_2 2 0 0x8013 | Value PD | | |





For DisplayPort Exited CC_1 PD event data in the Record Indices 15 and 16 can be 0x110A and 0x8013, respectively.

| Application Cust | omizat | ion Tool | | — 🗆 X | | | |
|---|--------------------|---|----------------------------|-------------------------------------|--|--|--|
| Project Binary Device | Setting | s Adapter Debug Documents He | In | | | | |
| General Settings 20 | C Contro | ller Events Device 1 | ۲P | | | | |
| ge | | | | | | | |
| | | | | GUI Build Version : 6.6.24 | | | |
| | | | | Configuration File Version - 6.6.24 | | | |
| Configuration M | Mode | | | TUSB564 version 6.6.24 | | | |
| Comgulation | nouc | | | TUSB564 Monitor nit | | | |
| | | | | 100D304_Wolltol.pjt | | | |
| | | | | USB to I2C/SPI Adapter : TIVA | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Record index 14 Record index 15 | ^ | Record index 15 (0xf) | | | | | |
| Record index 16 | | | | | | | |
| Record index 17 | | Field | | Value | | | |
| Record index 18 | | Triagos Event | Displayment Evited OO 4 DD | value | | | |
| Record index 20 | | | Displayport Exited CC_1 PD | | | | |
| Record index 21 | | Data Length | 2 | | | | |
| Record index 22 | | Slave Address Index | 0 | | | | |
| Record index 24 | | Data | 0x110a | | | | |
| Record index 25 | $\mathbf{\vee}$ | | | | | | |
| Application Custo Project Binary Device | omizat Settings | ion Tool Adapter Debug Documents Hel | | × | | | |
| General Settings I20 | Control | ler Events Device 1 | | | | | |
| | | | | | | | |
| | | | | GLII Build Version : 6.6.24 | | | |
| | | | | 001 Duild Version . 0.0.24 | | | |
| | | | | Configuration File Version : 6.6.24 | | | |
| Configuration N | ∕lode | | | TUSB564, version 6.6.24 | | | |
| · · · · J · · · · · · | | | | TUSB564 Monitor pit | | | |
| | | | | | | | |
| | | | | USB to I2C/SPI Adapter : TIVA | | | |
| | | | | | | | |
| | | | | | | | |
| | _ | | | | | | |
| Record index 14 Record index 15 | ^ | Record index 16 (0x10) | | | | | |
| Record index 16 | | | | | | | |
| Record index 17 | | Eield | | Value | | | |
| Record index 19 | | Trigger Event | Displayport Exited CC 1 PD | - | | | |
| Record index 20 | | | | | | | |
| Record index 21 Record index 22 | | | 2 | | | | |
| Record index 23 | | Slave Address Index | 0 | • | | | |
| Record index 24 | | Data | 0x8013 | | | | |
| Record index 25 | $\mathbf{\vee}$ | | | | | | |

Figure 2-16. DisplayPort Exited C CC_1 PD



For DisplayPort Exited CC_2 PD event data in the Record Indices 17 and 18 can be 0x150A and 0x8013, respectively.

| . , | | | | | | | |
|------------------------------------|--------------------|---------------------------------------|----------------------------|--------------------------|--------------|----------|--|
| Application Custom | izət | tion Tool | | | | | |
| | iizat | | | | | \sim | |
| Project Binary Device Set | tting | s Adapter Debug Documents Help | | | | | |
| General Settings I2C Co | ontro | Device 1 | | | | | |
| | | | | | | | |
| | | | | GUI Build Version 6 6 24 | | | |
| | | | | | | | |
| | | | | Configuration File V | ersion : 6.6 | .24 | |
| Configuration Mod | TUSB564, version 6 | 0.6.24 | | | | | |
| | | | | TUSB564 Monitor | oit | | |
| | | | | | Ar. | | |
| | | | | USB to I2C/SPI Ad: | apter · TIV/ | 4 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Record index 14 | ~ | Record index 17 (0x11) | | | | | |
| Record index 15 | | , , , , , , , , , , , , , , , , , , , | | | | | |
| Record index 16 Record index 17 | | | | | | | |
| Record index 18 | | Field | Val | lue | | | |
| Record index 19 | | Trigger Event | Displayport Exited CC_2 PD | | | - | |
| Record index 20 Record index 21 | | Data Length | 2 | | | | |
| Record index 22 | | Slave Address Index | - | | | | |
| Record index 23 | | | 0 | | | - | |
| Record index 24 | 0 | | 0x150a | | | | |
| Decent Selfer on | * | | | | | | |
| | | Figure 2-17 Displa | wPort Exited C CC 2 PD | | | | |
| | | | | | | | |
| | | | | | | | |
| Application Custom | izat | tion Tool | | _ | | X | |
| Project Binary Device Set | tting | s Adapter Debug Documents Help | | | | | |
| General Settings I2C Co | ontro | ller Events Device 1 | | | | | |
| | | | | | | | |
| | | | | CLII Build Vorcion : | 6624 | | |
| | | | | GOI Dulla Version. | 0.0.24 | | |
| | | | | Configuration File V | ersion 6 f | 3 24 | |
| Configuration Mo | do | | | TUSB564 version 6.6.24 | | | |
| | ue | | | TUOD504, Version | .0.24 | | |
| | | | | TUSB564_Monitor. | pjt | | |
| | | | | | antor : TIV | ^ | |
| | | | | 030 10120/3FTAu | apter . ITV | 4 | |
| | | | | | | | |
| | | | | | | | |
| Record index 14 | | Record index 18 (0x12) | | | | | |
| Record index 15 | ~ | | | | | | |
| Record index 16 | | | | | | | |
| Record index 17 | | Field | Va | lue | | | |
| Record index 19 | | Trigger Event | Displayport Exited CC 2 PD | | | _ | |
| Record index 20 | | Data Longth | | | | | |
| Record index 21 | | Data LCHYTH | 4 | | | T | |

Figure 2-18. DisplayPort Exited C CC_2 PD

0

0x8013

Record index 22

Record index 23 Record index 24

Record index 25

Slave Address Index

Data

¥

-



For Detach and Hard Reset event, disable the multiplexer. Therefore, data for the Record Indices 19 and 20 corresponding to these events are 0x000A and 0x8013, respectively.

| Application Custor | nizati | ion Tool | | - 🗆 X | | | | |
|---|--------------------------|--|-----------------------|--|--|--|--|--|
| Project Binary Device Settings Adapter Debug Documents Help | | | | | | | | |
| Conoral Sottings 12C C | Control | ler Events Dovico 1 | | | | | | |
| General Settings 12C C Configuration Mo Record index 14 Record index 15 Decord index 16 | ode | Record index 19 (0x13) | G C T T U | GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 TUSB564, version 6.6.24 TUSB564_Monitor.pjt USB to I2C/SPI Adapter : TIVA | | | | |
| Record index 17 | | | | | | | | |
| Record index 18 | | Field | Value | | | | | |
| Record index 19 | | Trigger Event | Detach | • | | | | |
| Record index 20 Record index 21 | | Data Length | 2 | | | | | |
| Record index 22 | | Clave Address Index | - | | | | | |
| Record index 23 | | Slave Address index | 0 | | | | | |
| Record index 24 | | Data | 0xa | | | | | |
| Record Index 25 | $\mathbf{\mathbf{\vee}}$ | | | | | | | |
| Project Binary Device S | mizati | ion Tool s Adapter Debug Documents Help | | - 🗆 X | | | | |
| General Settings I2C C | Control | ller Events Device 1 | | | | | | |
| Configuration Mo | ode | | G C T T U | GUI Build Version : 6.6.24 Configuration File Version : 6.6.24 USB564, version 6.6.24 USB564_Monitor.pjt ISB to I2C/SPI Adapter : TIVA | | | | |
| Record index 14 Record index 15 | ^ | Record index 20 (0x14) | | | | | | |
| Record index 16 | | | | | | | | |
| Record index 17 | | Eiald | Value | | | | | |
| Record index 18 Record index 19 | | | Value | | | | | |
| Record index 19 | | Trigger Event | Detach | <u> </u> | | | | |
| Record index 21 | | Data Length | 2 | | | | | |
| Record index 22 | | Slave Address Index | 0 | | | | | |
| Record index 23 | | Data | 028013 | | | | | |
| Record index 25 | | Dala | 0x0013 | | | | | |
| | - | | | | | | | |

Figure 2-20. Detach



For DisplayPort Pin Configuration E CC_1 PD event, the data sent to the MUX in the Record Indices 21 is 0xa013.

| Application Cus | stomizati | on Tool | | | _ | | × |
|-----------------------|------------|---------------------------|----------------------------------|---------------|------------|-------------|----------|
| Project Binary Device | Settings | Adapter Debug Documents H | elp | | | | |
| General Settings | 2C Control | ler Events Device 1 | | | | | |
| | | | | GUI Build Ve | ersion : 6 | .6.24 | |
| | | | | Configuration | n File Ve | rsion : 6.6 | 3.24 |
| Configuration | Mode | | | TUSB564, ve | ersion 6. | 6.24 | |
| ····j -····· | | | | TUSB564 M | Ionitor ni | it | |
| | | | | 1000001_0 | ronitor.pj | ir. | |
| | | | | USB to I2C/S | SPLAda | nter · TIV | Δ |
| | | | | 000 1012010 | 5117100 | ptor . 1147 | |
| | | | | | | | |
| | | | | | | | |
| Record index 14 | ~ | Record index 21 (0x15) | | | | | |
| Record index 15 | | | | | | | |
| Record index 16 | | | | | | | |
| Record index 17 | | Field | | | | | |
| Record index 18 | | Field | | value | | | |
| Record index 19 | | Trigger Event | Displayport Pin Config E CC_1 PD | | | | <u> </u> |
| Record index 20 | | Data Length | 2 | | | | |
| Record index 22 | | | | | | | |
| Record index 23 | | Slave Address Index | 0 | | | | • |
| Record index 24 | | Data | 0xa013 | | | | 1 |
| Record index 25 | \sim | | L | | | | |
| 10 11 1 00 | | | | | | | |

Figure 2-21. DisplayPort Pin Config E CC_1 PD

For DisplayPort Pin Configuration E CC_2 PD event, the data sent to the MUX in the Record Indices 21 is 0x9013.

| Application Cus | stomizat | ion Tool | | | | | — | | \times |
|------------------------------------|-----------|--------------------|-----------|------|----------------------------------|------------|-------------|--------------|----------|
| Project Binary Device | e Setting | s Adapter Debug | Documents | Help | | | | | |
| General Settings | 2C Contro | ller Events Devi | ice 1 | | | | | | |
| | | | | | | GUI Build | Version : 6 | 6.6.24 | |
| | | | | | | Configurat | ion File V | ersion : 6.6 | 3.24 |
| Configuration | Mode | | | | | TUSB564 | , version 6 | 6. 24 | |
| • | | | | | | TUSB564 | Monitor. | ojt | |
| | | | | | | | | | |
| USB to I2C/SPI Adapter : TIVA | | | | | | | | A | |
| Record index 14 Record index 15 | ^ | Record index 2 | 22 (0x16) | | | | | | |
| Record index 16 | | | | | | | | | |
| Record index 17 Record index 18 | | | Field | | | Value | | | |
| Record index 19 | | Trigger Event | | | Displayport Pin Config E CC 2 PD | | | | - |
| Record index 20 | | Data Length | | | | | | | |
| Record index 21 | | Data Length | | | 2 | | | | |
| Record index 23 | | Slave Address Inde | ex | | 0 | | | | - |
| Record index 24 | | Data | | | 0x9013 | | | | |
| Record index 25 | \sim | | | | <u>N</u> | | | | |

Figure 2-22. DisplayPort Pin Config E CC_2 PD



Table 2-1 displays the summary on the 22 index settings in the I2C table.

| | Trigger Event | Register | Value | | | | | |
|---------|--|----------|-------|--|--|--|--|--|
| Index1 | Power On Reset | А | 0 | | | | | |
| Index2 | Power On Reset | 13 | 80 | | | | | |
| Index3 | Cable Attach CC_1 PD | 0A | 11 | | | | | |
| Index4 | Cable Attach CC_2_PD | 0A | 15 | | | | | |
| Index5 | Cable Attach CC_1 PD | 13 | 80 | | | | | |
| Index6 | Cable Attach CC_2_PD | 13 | 80 | | | | | |
| Index7 | DisplayPort Pin Config A, C or E CC_1 PD | 0A | 12 | | | | | |
| Index8 | DisplayPort Pin Config A, C or E CC_1 PD | 13 | 80 | | | | | |
| Index9 | DisplayPort Pin Config A, C or E CC_2 PD | 0A | 16 | | | | | |
| Index10 | DisplayPort Pin Config A, C or E CC_2 PD | 13 | 80 | | | | | |
| Index11 | DisplayPort Pin Config B, D or F CC_1 PD | 0A | 13 | | | | | |
| Index12 | DisplayPort Pin Config B, D or F CC_1 PD | 13 | 80 | | | | | |
| Index13 | DisplayPort Pin Config B, D or F CC_2PD | 0A | 17 | | | | | |
| Index14 | DisplayPort Pin Config B, D or F CC_2PD | 13 | 80 | | | | | |
| Index15 | DisplayPort Exited C CC_1 PD | 0A | 11 | | | | | |
| Index16 | DisplayPort Exited C CC_1 PD | 13 | 80 | | | | | |
| Index17 | DisplayPort Exited C CC_2 PD | 0A | 15 | | | | | |
| Index18 | DisplayPort Exited C CC_2 PD | 13 | 80 | | | | | |
| Index19 | Detach | А | 0 | | | | | |
| Index20 | Detach | 13 | 80 | | | | | |
| Index21 | DisplayPort Pin Config E CC_1 PD | 13 | A0 | | | | | |
| Index22 | DisplayPort Pin Config E CC_2 PD | 13 | 90 | | | | | |

Table 2-1. TUSB564 I2C Command Index Summary Table



3 References

- Texas Instruments, *TPS65987D USB Type-C*® and *USB PD Controller with Integrated Source and Sink Power Path Supporting USB3 and Alternate Mode* data sheet
- Texas Instruments, TUSB564 USB Type-C DP Alt Mode 8.1 Gbps Sink-Side Linear Redriver Crosspoint Switch data sheet
- Texas Instruments, Using I2C Master in TPS65987D and TPS65988 PD Controllers application note
- Texas Instruments, PD Alternate Mode: DisplayPort application note

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