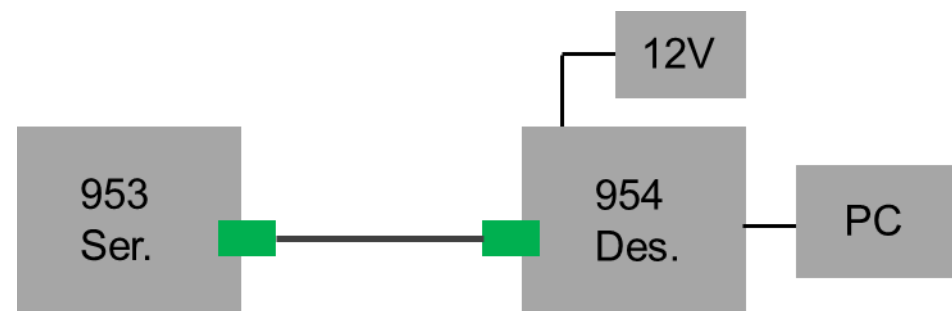


SETUP DS90UB953-Q1 & DS90UB954-Q1 EVM



Block Diagram

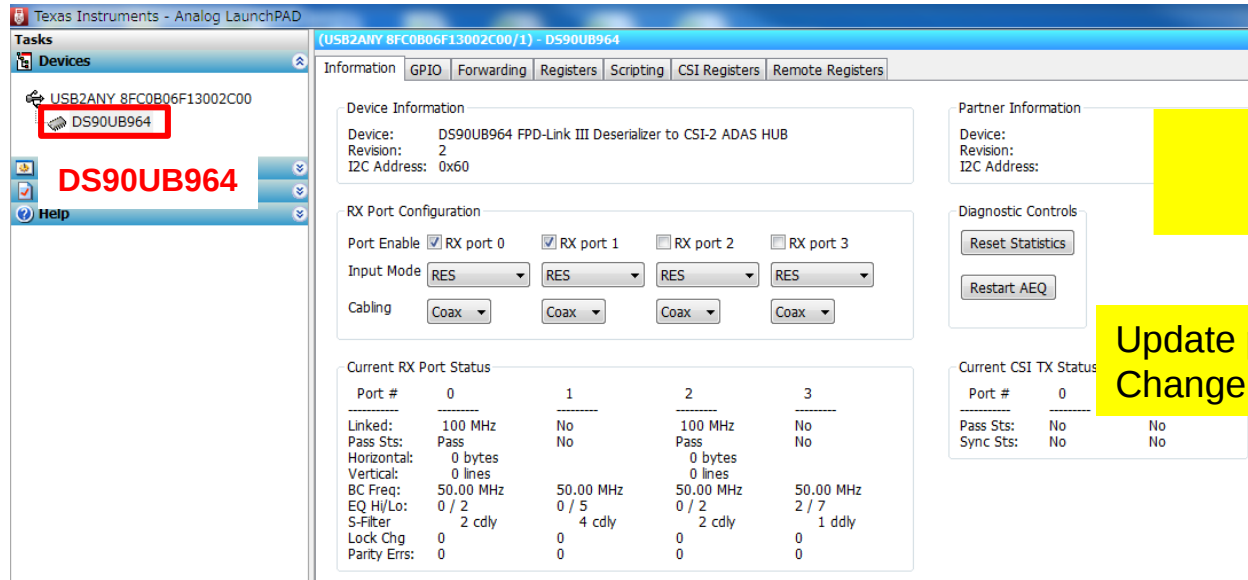
Back Ground & Question

Back Ground

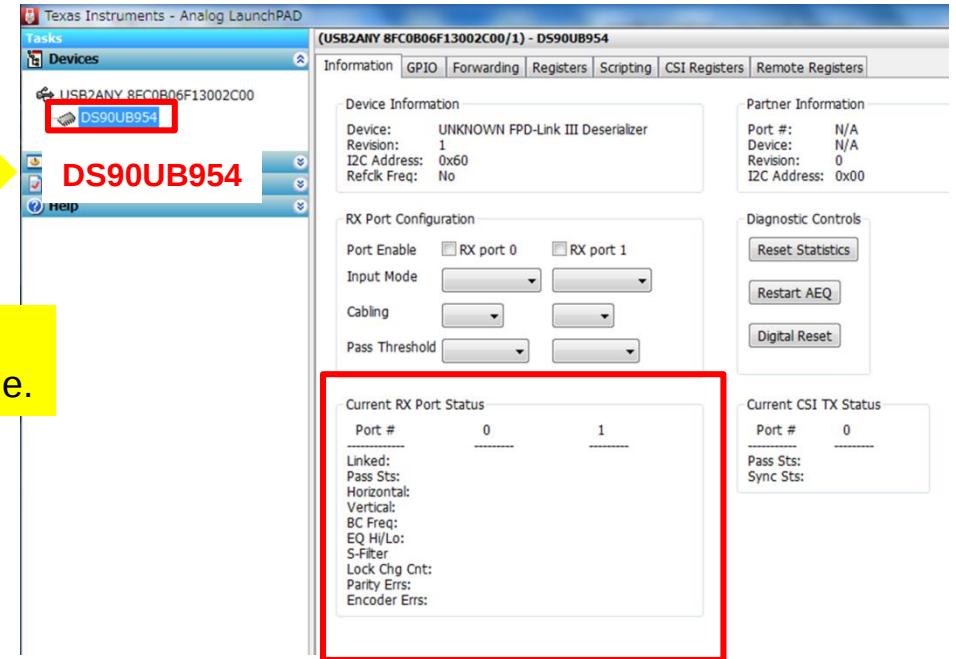
- We updated profile and changed device profile.
- But status is not displayed
- The devices(953/954) are not recognized

Question

- Which parameter should we change to recognize the devices(953/954)?



Update profile and
Change device profile.



Status is not displayed

Information

Texas Instruments - Analog LaunchPAD

Tasks

Devices

USB2ANY 8FC0B06F13002C00

DS90UB954 **It's OK?**

Tools

Preferences

Help

(USB2ANY 8FC0B06F13002C00/1) - DS90UB954

Information | GPIO | Forwarding | Registers | Scripting | CSI Registers | Remote Registers

Device Information

Device: UNKNOWN FPD-Link III Deserializer
Revision: 1
I2C Address: 0x60
Refclk Freq: No

Partner Information

Port #: N/A
Device: N/A
Revision: 0
I2C Address: 0x00

RX Port Configuration

Port Enable ☐ RX port 0 ☐ RX port 1

Input Mode

Cabling

Pass Threshold

Diagnostic Controls

Reset Statistics

Restart AEQ

Digital Reset

Current RX Port Status

Port #	0	1
Linked:		
Pass Sts:		
Horizontal:		
Vertical:		
BC Freq:		
EQ Hi/Lo:		
S-Filter		
Lock Chg Cnt:		
Parity Errs:		
Encoder Errs:		

Current CSI TX Status

Port #	0
Pass Sts:	
Sync Sts:	

which parameter must be change?

Status is not displayed

Remote Registers

(USB2ANY 8FC0B06F13002C00/1) - DS90UB954

Information GPIO Forwarding Registers Scripting CSI Registers Remote Registers

Error

Error: No Partner Device Found: N/A

OK

v1.57.0010

TEXAS INSTRUMENTS

Remote device is not recognized.

Forwarding

(USB2ANY 8FC0B06F13002C00/1) - DS90UB954

Information GPIO Forwarding Registers Scripting CSI Registers Remote Registers

RX Port Forwarding Control

Forward Enable ☒ RX port 0 ☒ RX port 1

Apply

CSI Transmitter Control

Replicate Mode ☐ Replicate Mode

CSI TX Enable ☐ CSI TX 0

CSI Datarate 1.6 Gbps

Number of Lanes 4 Lanes

Continuous Clock Disable

Calibration Sequence Disable

Forwarding Mode Disabled

Apply

Do We need to change parameters?

GPIO

(USB2ANY 8FC0B06F13002C00/1) - D590UB954

Information GPIO Forwarding Registers Scripting CSI Registers Remote Registers

GPIO Pin Control

	GPIO 0	GPIO 1	GPIO 2	GPIO 3	GPIO 4	GPIO 5	GPIO 6
Output Enable	☐	☐	☐	☐	☐	☐	☐
Source Option	RX Port 0	RX Port 0	RX Port 0	RX Port 0	RX Port 0	RX Port 0	RX Port 0
RX Port Option	RX GPIO 0	RX GPIO 0	RX GPIO 0	RX GPIO 0	RX GPIO 0	RX GPIO 0	RX GPIO 0
Status Option	Output Val	Output Val	Output Val	Output Val	Output Val	Output Val	Output Val
TX Port Option	Pass (AND)	Pass (AND)	Pass (AND)	Pass (AND)	Pass (AND)	Pass (AND)	Pass (AND)
Output Value	0	0	0	0	0	0	0

GPIO Pin Status

GPIO 0:
GPIO 1:
GPIO 2:
GPIO 3:
GPIO 4:
GPIO 5:
GPIO 6:

RX0 BC GPIO

BC GPIO0:	GPIO PIN 0
BC GPIO1:	GPIO PIN 0
BC GPIO2:	GPIO PIN 0
BC GPIO3:	GPIO PIN 0

RX1 BC GPIO

BC GPIO0:	GPIO PIN 0
BC GPIO1:	GPIO PIN 0
BC GPIO2:	GPIO PIN 0
BC GPIO3:	GPIO PIN 0

FrameSync Generator

FSync Ref: FSync Ref Period: not selected

FSync rate (fps) -OR- FSync period (us)

Duty Cycle % -OR- FSync High (us)

Do we need to change the parameters to recognize the devices?

Registers

(USB2ANY 8FC0B06F13002C00/1) - D590UB954

Information GPIO Forwarding Registers Scripting CSI Registers Remote Registers

Value: 00 Apply Refresh Refresh All ☒ Verbose Descriptions Select RX Port ☐ Write All RX Ports

0x00 - I2C Device ID	▼
0x01 - Reset	▼
0x02 - General Configuration	▼
0x03 - Revision/Mask ID	▼
0x04 - DEVICE_STS	▼
0x05 - PAR_ERR_THOLD_HI	▼
0x06 - PAR_ERR_THOLD_LO	▼
0x07 - BCC Watchdog Control	▼
0x08 - I2C Control 1	▼
0x09 - I2C Control 2	▼
0x0A - SCL High Time	▼
0x0B - SCL Low Time	▼
0x0C - RX_PORT_CTL	▼
0x0D - IO_CTL	▼
0x0E - GPIO_PIN_STS	▼
0x0F - GPIO_INPUT_CTL	▼
0x10 - GPIO0_PIN_CTL	▼
0x11 - GPIO1_PIN_CTL	▼
0x12 - GPIO2_PIN_CTL	▼
0x13 - GPIO3_PIN_CTL	▼
0x14 - GPIO4_PIN_CTL	▼
0x15 - GPIO5_PIN_CTL	▼
0x16 - GPIO6_PIN_CTL	▼
0x17 - Reserved	▼
0x18 - FS_CTL	▼
0x19 - FS_HIGH_TIME_1	▼
0x1A - FS_HIGH_TIME_0	▼
0x1B - FS_LOW_TIME_1	▼
0x1C - FS_LOW_TIME_0	▼
0x1D - MAX_FRM_HI	▼

Display Load Save

Do we need to change the parameters to recognize the devices?

CSI Registers

(USB2ANY 8FC0B06F13002C00/1) - DS90UB954

Information GPIO Forwarding Registers Scripting **CSI Registers** Remote Registers

Value: 00 Apply Refresh Refresh All ☒ Verbose Descriptions

0x00 - Reserved	⌵
0x01 - PGEN_CTL	⌵
0x02 - PGEN_CFG	⌵
0x03 - PGEN_CSI_DI	⌵
0x04 - PGEN_LINE_SIZE1	⌵
0x05 - PGEN_LINE_SIZE0	⌵
0x06 - PGEN_BAR_SIZE1	⌵
0x07 - PGEN_BAR_SIZE0	⌵
0x08 - PGEN_ACT_LPF1	⌵
0x09 - PGEN_ACT_LPF0	⌵
0x0A - PGEN_TOT_LPF1	⌵
0x0B - PGEN_TOT_LPF0	⌵
0x0C - PGEN_LINE_PD1	⌵
0x0D - PGEN_LINE_PD0	⌵
0x0E - PGEN_VBP	⌵
0x0F - PGEN_VFP	⌵
0x10 - PGEN_COLOR0	⌵
0x11 - PGEN_COLOR1	⌵
0x12 - PGEN_COLOR2	⌵
0x13 - PGEN_COLOR3	⌵
0x14 - PGEN_COLOR4	⌵
0x15 - PGEN_COLOR5	⌵
0x16 - PGEN_COLOR6	⌵
0x17 - PGEN_COLOR7	⌵
0x18 - PGEN_COLOR8	⌵
0x19 - PGEN_COLOR9	⌵
0x1A - PGEN_COLOR10	⌵
0x1B - PGEN_COLOR11	⌵
0x1C - PGEN_COLOR12	⌵
0x1D - PGEN_COLOR13	⌵

Display Load Save

Do we need to change the parameters to recognize the devices?