

# Test Report

Created by:achennar 2024-01-22 19:51:55

Board: 10.123.100.99

Report printed in folder: C:/MentorGraphics/XStep.2020.01.0.3/XStepAPI/armhf/work

Report name: C:/MentorGraphics/XStep.2020.01.0.3/XStepAPI/armhf/work/JESD204C\_4Lane\_1250Mbps\_Rx-achennar-2024-01-22\_time\_19-51-55.html and .pdf

Test Case Name:JESD204C\_4Lane\_1250Mbps\_Rx

Test Case Description:Example Test Case: JESD204C 1250Mbps 4 Lane, Rx Only, Trigger to EMB\_START

Test Case started:2024/01/22 19:48:38

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Hit Name	Status	Description	File	Modified	Cumulative Run Time (sec)	Number
JESD204C_Test_Case_Settings	Done	0 JESD204C_Test_Case_Settings	sarokal/reference_testhits/jesd204c/jesd204c_testcase_settings.hxx	Mon Mar 16 16:53:31 2020	6.539	0
JESD204C_Program_Device	Done	1 JESD204C_Program_Device	sarokal/reference_testhits/jesd204c/jesd204c_program.hxx	Mon Mar 16 16:53:31 2020	21.58	1
COMMON_Ext_Ref_Clock_Usage	Done	2 COMMON_Ext_Ref_Clock_Usage	sarokal/reference_testhits/common/common.hxx	Mon Mar 16 16:53:31 2020	21.59	2
JESD204C_RX_Copy_Input_Files	Done	3 JESD204C_RX_Copy_Input_Files	sarokal/reference_testhits/jesd204c/jesd204c_rx_hits.hxx	Mon Mar 16 16:53:31 2020	27.8	3
JESD204C_RX_Initialize_and_Trigger_Definition	Done	4 JESD204C_RX_Initialize_and_Trigger_Definition	sarokal/reference_testhits/jesd204c/jesd204c_rx_hits.hxx	Mon Mar 16 16:53:31 2020	27.88	4
JESD204C_RX_Reserve_Capture_Segment	Done	5 JESD204C_RX_Reserve_Capture_Segment	sarokal/reference_testhits/jesd204c/jesd204c_rx_hits.hxx	Mon Mar 16 16:53:31 2020	27.94	5
JESD204C_RX_Check_Receiver_Sync	Done	6 JESD204C_RX_Check_Receiver_Sync	sarokal/reference_testhits/jesd204c/jesd204c_rx_hits.hxx	Mon Mar 16 16:53:31 2020	27.94	6
JESD204C_RX_Start	Done	7 JESD204C_RX_Start	sarokal/reference_testhits/jesd204c/jesd204c_rx_hits.hxx	Mon Mar 16 16:53:31 2020	30.38	7
JESD204C_RX_Wait_For_Trigger_and_Capture	Done	8 JESD204C_RX_Wait_For_Trigger_and_Capture	sarokal/reference_testhits/jesd204c/jesd204c_rx_hits.hxx	Mon Mar 16 16:53:31 2020	30.39	8
JESD204C_RX_Analyze_Capture	Done	9 JESD204C_RX_Analyze_Capture	sarokal/reference_testhits/jesd204c/jesd204c_rx_hits.hxx	Mon Mar 16 16:53:31 2020	31.19	9
JESD204C_RX_Stop	Done	10 JESD204C_RX_Stop	sarokal/reference_testhits/jesd204c/jesd204c_rx_hits.hxx	Mon Mar 16 16:53:31 2020	31.2	10
JESD204C_RX_Print_Results_Vector	Done	11 JESD204C_RX_Print_Results_Vector	sarokal/reference_testhits/jesd204c/jesd204c_rx_hits.hxx	Mon Mar 16 16:53:31 2020	31.2	11
JESD204C_RX_Copy_Output_Files	Done	12 JESD204C_RX_Copy_Output_Files	sarokal/reference_testhits/jesd204c/jesd204c_rx_hits.hxx	Mon Mar 16 16:53:31 2020	108.7	12

## Log:

Compile OK

Copy Ready

Copy DONE

Test JESD204C\_4Lane\_1250Mbps\_Rx started: 2024/01/22 19:48:36

cd /root/XStep/work;chmod +x JESD204C\_4Lane\_1250Mbps\_Rx;LD\_LIBRARY\_PATH=/root/XStep/lib ./JESD204C\_4Lane\_1250Mbps\_Rx

#x.info 00:00:00:027 Using XSTEP DNRT4:1512011, CPU1512026, EFU1512006, rev:.

#x.info 00:00:00:108 MAC address 70:B3:D5:FA:20:71

#log.info 00:00:00:193 Looking for xstep-runtime license..

#log.info 00:00:00:462 License xstep-runtime checked out

Reset variables in VariableForm

Test JESD204C\_4Lane\_1250Mbps\_Rx started: 2024/01/22 19:48:38

#testcase.run 00:00:00:797 Start test case JESD204C\_4Lane\_1250Mbps\_Rx

#testcase.info 00:00:00:797 XStepApi version: 2020.01.0.3

#testcase.info 00:00:00:797 Import XStepApi.ini settings

#testcase.info 00:00:00:798 Import JESD204C\_4Lane\_1250Mbps\_Rx.ini settings

#testcase.info 00:00:00:798 No arguments

#testcase.run 00:00:00:799 Start test hit 0 JESD204C\_Test\_Case\_Settings

#log.info 00:00:00:802 JESD204C selected as the working directory for this test case.

#apix.settings.workdir JESD204C

#client.copyC2X 00:00:00:806 JESD204C/jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt to: JESD204C/jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt

#client.copy.end ready

#log.info 00:00:06:494 Copy done

#testcase.run 00:00:06:539 Done test hit 0 JESD204C\_Test\_Case\_Settings

#testcase.run 00:00:06:539 Start test hit 1 JESD204C\_Program\_Device

#apix.jesd204c.program 1G25 1

#jesd204c.info 00:00:06:540 Jesd204c program using 1G25 bitrate

#jesd204c.info 00:00:06:541 Jesd204c program 1 lane(s) configured

#program.info 00:00:06:543 Unload xilinx\_emaclite kernel module

#console.info 00:00:06:547

#console.info 00:00:06:551

#clock.info 00:00:06:552 Starting to set frequency 156250000

#program.info 00:00:06:607 FPGA is empty

#program.info 00:00:07:944 CPU md5Hash = 87f65c6ed5b22e2631779274ca34a92b

#program.info 00:00:07:945 CPU Ver=C04F1015

#program.info 00:00:08:362 Programming ../bin/CPU.bit

#program.info 00:00:08:372 CPU Board programmed

#program.info 00:00:09:586 IFU md5Hash = 95a7e83456ffcac59fd85c8aac2e9f0e

#program.info 00:00:09:586 IFU Ver=E0030015

#program.info 00:00:09:587 Programming ../bin/EFU\_64B66B.bit

#program.info 00:00:09:600 Programming interface card...

#program.info 00:00:21:518 Number of active links set to 1

#program.info 00:00:21:520 Number of active lanes set to 4

#program.info 00:00:21:582 Memory if- OK

#program.info 00:00:21:583 Register if- OK

#testcase.run 00:00:21:585 Done test hit 1 JESD204C\_Program\_Device

#testcase.run 00:00:21:585 Start test hit 2 COMMON\_Ext\_Ref\_Clock\_Usage

#log.info 00:00:21:586 External reference clock usage not selected (useExtRefClock=0)

#testcase.run 00:00:21:587 Done test hit 2 COMMON\_Ext\_Ref\_Clock\_Usage

#testcase.run 00:00:21:588 Start test hit 3 JESD204C\_RX\_Copy\_Input\_Files

#apix.jesd204c.rx.copyInputFiles jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt

#log.info 00:00:21:899 License jesd204c-actor checked out

#client.copyC2X 00:00:21:899 JESD204C/jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt to: JESD204C/jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt

#client.copy.end ready

#log.info 00:00:27:755 Copy done

#testcase.run 00:00:27:798 Done test hit 3 JESD204C\_RX\_Copy\_Input\_Files

#testcase.run 00:00:27:799 Start test hit 4 JESD204C\_RX\_Initialize\_and\_Trigger\_Definition

#log.info 00:00:27:800 Initializing variables and Rx trigger

#apix.jesd204c.rx.reset

#apix.jesd204c.rx.init

#log.info 00:00:27:879 Forcing the capture to start instantly after Rx start

#apix.jesd204c.rx.triggerMode 0

#testcase.run 00:00:27:880 Done test hit 4 JESD204C\_RX\_Initialize\_and\_Trigger\_Definition

#testcase.run 00:00:27:880 Start test hit 5 JESD204C\_RX\_Reserve\_Capture\_Segment

#log.info 00:00:27:881 Defining capture segment & size and frame settings for the Analyzer

#rx.info 00:00:27:911 Calculated Segment Size: 0x 4e200

#apix.jesd204c.rx.calculateReceiveSegmentSize jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt 320000

#apix.jesd204c.rx.addSegment jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt RxSegment1 320160 1

#rx.info 00:00:27:943 Capturing 0MB, free disk space 24236MB.

#testcase.run 00:00:27:943 Done test hit 5 JESD204C\_RX\_Reserve\_Capture\_Segment

#testcase.run 00:00:27:944 Start test hit 6 JESD204C\_RX\_Check\_Receiver\_Sync

#testcase.run 00:00:27:945 Done test hit 6 JESD204C\_RX\_Check\_Receiver\_Sync

#testcase.run 00:00:27:945 Start test hit 7 JESD204C\_RX\_Start

#apix.jesd204c.rx.start

#testcase.run 00:00:30:384 Done test hit 7 JESD204C\_RX\_Start

#testcase.run 00:00:30:384 Start test hit 8 JESD204C\_RX\_Wait\_For\_Trigger\_and\_Capture

#apix.jesd204c.rx.getState DONE

#log.info 00:00:30:385 Rx FSM state = DONE in lane 0

#testcase.run 00:00:30:386 Done test hit 8 JESD204C\_RX\_Wait\_For\_Trigger\_and\_Capture

#testcase.run 00:00:30:386 Start test hit 9 JESD204C\_RX\_Analyze\_Capture

#apix.jesd204c.rx.analyze jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt RxSegment1

#rx.info 00:00:30:430 Running Analyzer

#rx.info 00:00:30:432 Analyze segname: RxSegment1\_link0 address 0x100000000

#protocol.info 00:00:30:432 JESD204C Analyzer started

#protocol.info 00:00:30:455 Loading JESD204C setup

#log.info 00:00:30:456 Load settings Jesd204cRxTriggerPulse.SavePayload=

#log.info 00:00:30:457 Load settings Jesd204cRxTriggerPulse.SavePayloadFileFormat=HEX

#log.info 00:00:30:458 Load settings Jesd204cRxTriggerPulse.FileHeader=

#log.info 00:00:30:459 Load settings Jesd204cRxTriggerPulse.SavePayloadBytesInLine=8

#log.info 00:00:30:460 Load settings Jesd204cRxTriggerPulse.LsbFirst=0

#log.info 00:00:30:461 Load settings Jesd204cRxTriggerPulse.DeltaCalc=

#log.info 00:00:30:462 Load settings Jesd204cRxTriggerPulse.DeltaCalcEdge=

#log.info 00:00:30:462 Load settings Jesd204cRxTriggerPulse.Report=0

#log.info 00:00:30:465 Load settings Converter0.SavePayloadFileName=savepayload0.txt

#log.info 00:00:30:466 Load settings Converter0.FileHeader=

#log.info 00:00:30:467 Load settings Converter0.SavePayloadFileFormat=HEX\_16

#log.info 00:00:30:468 Load settings Converter0.SavePayloadBytesInLine=8

#log.info 00:00:30:468 Load settings Converter0.AddIQFrontBits=0

#log.info 00:00:30:469 Load settings Converter1.SavePayloadFileName=savepayload1.txt

#log.info 00:00:30:470 Load settings Converter1.FileHeader=

#log.info 00:00:30:471 Load settings Converter1.SavePayloadFileFormat=HEX\_16

#log.info 00:00:30:472 Load settings Converter1.SavePayloadBytesInLine=8

#log.info 00:00:30:473 Load settings Converter1.AddIQFrontBits=0

#log.info 00:00:30:473 Load settings Converter2.SavePayloadFileName=savepayload2.txt

#log.info 00:00:30:474 Load settings Converter2.FileHeader=

#log.info 00:00:30:475 Load settings Converter2.SavePayloadFileFormat=HEX\_16

#log.info 00:00:30:476 Load settings Converter2.SavePayloadBytesInLine=8

#log.info 00:00:30:477 Load settings Converter2.AddIQFrontBits=0

#log.info 00:00:30:478 Load settings Converter3.SavePayloadFileName=savepayload3.txt

#log.info 00:00:30:479 Load settings Converter3.FileHeader=

#log.info 00:00:30:480 Load settings Converter3.SavePayloadFileFormat=HEX\_16

#log.info 00:00:30:480 Load settings Converter3.SavePayloadBytesInLine=8

#log.info 00:00:30:481 Load settings Converter3.AddIQFrontBits=0

#log.info 00:00:30:482 Load settings Converter4.SavePayloadFileName=savepayload4.txt

#log.info 00:00:30:483 Load settings Converter4.FileHeader=

#log.info 00:00:30:484 Load settings Converter4.SavePayloadFileFormat=HEX\_16

#log.info 00:00:30:485 Load settings Converter4.SavePayloadBytesInLine=8

#log.info 00:00:30:486 Load settings Converter4.AddIQFrontBits=0

#log.info 00:00:30:486 Load settings Converter5.SavePayloadFileName=savepayload5.txt

#log.info 00:00:30:487 Load settings Converter5.FileHeader=

#log.info 00:00:30:488 Load settings Converter5.SavePayloadFileFormat=HEX\_16

#log.info 00:00:30:489 Load settings Converter5.SavePayloadBytesInLine=8

#log.info 00:00:30:490 Load settings Converter5.AddIQFrontBits=0

#log.info 00:00:30:491 Load settings Converter6.SavePayloadFileName=savepayload6.txt

#log.info 00:00:30:492 Load settings Converter6.FileHeader=

#log.info 00:00:30:493 Load settings Converter6.SavePayloadFileFormat=HEX\_16

#log.info 00:00:30:494 Load settings Converter6.SavePayloadBytesInLine=8

#log.info 00:00:30:495 Load settings Converter6.AddIQFrontBits=0

#log.info 00:00:30:495 Load settings Converter7.SavePayloadFileName=savepayload7.txt

#log.info 00:00:30:496 Load settings Converter7.FileHeader=

#log.info 00:00:30:497 Load settings Converter7.SavePayloadFileFormat=HEX\_16

#log.info 00:00:30:498 Load settings Converter7.SavePayloadBytesInLine=8

#log.info 00:00:30:499 Load settings Converter7.AddIQFrontBits=0

#log.info 00:00:30:500 Load settings L = 1

#log.info 00:00:30:501 Load settings F = 16

#log.info 00:00:30:502 Load settings M = 8

#log.info 00:00:30:503 Load settings CS = 0

#log.info 00:00:30:503 Load settings N = 16

#log.info 00:00:30:504 Load settings N\_total = 16

#log.info 00:00:30:504 Load settings S = 1

#log.info 00:00:30:505 Load settings HD = 1

#log.info 00:00:30:505 Load settings CF = 0

#log.info 00:00:30:506 Load settings E = 1

#log.info 00:00:30:506 Load settings NumberOfExtMultiblocks = 1000

#log.info 00:00:30:507 Load settings CmdChannelSingleLaneMode = 1

#log.info 00:00:30:507 Load settings ReverseReportBits = 0

#log.info 00:00:30:508 Load settings Verbose = 0

#log.info 00:00:30:508 Load settings OversamplePayloads = 1

#log.info 00:00:30:509 Load settings IdleType = PayloadLoop

#log.info 00:00:30:509 Load settings ControlChannelMode = DeviceControlChannel

#log.info 00:00:30:510 Load settings Tailbits = high

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#log.info 00:00:30:510 Load settings LimitSavePayloadSize = 1

#log.info 00:00:30:511 Load settings CmdWordOutputFileName = output_command_words.txt

#log.info 00:00:30:511 Load settings RxReportFileName = RX_frame_report_file.txt

#log.info 00:00:30:512 Load settings RxFrameCaptureStartTrigger = TRIGGER_IMMEDIATELY

#log.info 00:00:30:512 Load settings Lane0.RxOutputFrameFileName = RX0_frame_file.txt

#log.info 00:00:30:513 Load settings BusWidthBytes = 4

#log.info 00:00:30:513 Load settings SyncWordMode = MODE_CMD_CHANNEL

#protocol.info 00:00:30:517 Multiblock synchronization found:

#protocol.info 00:00:30:518 Lane 0 offset: 80

#protocol.info 00:00:30:583 6403 bytes analyzed

#protocol.info 00:00:30:646 12806 bytes analyzed

#protocol.info 00:00:30:710 19209 bytes analyzed

#protocol.info 00:00:30:774 25612 bytes analyzed

#protocol.info 00:00:30:837 32015 bytes analyzed

#protocol.info 00:00:30:902 38418 bytes analyzed

#protocol.info 00:00:30:968 44821 bytes analyzed

#protocol.info 00:00:31:032 51224 bytes analyzed

#protocol.info 00:00:31:096 57627 bytes analyzed

#protocol.info 00:00:31:160 64030 bytes analyzed

#protocol.info 00:00:31:161 JESD204C protocol warnings found:

#protocol.info 00:00:31:161

#protocol.info 00:00:31:162 Command channel faulty header 0

#protocol.info 00:00:31:162 Command channel faulty payload length 0

#protocol.info 00:00:31:163 Command channel reserved type received 0

#protocol.info 00:00:31:163 Sync word faulty pilot signal 0

#protocol.info 00:00:31:164 Sync word faulty EoEMB signal 0

#protocol.info 00:00:31:165 Sync word faulty parity bit 0

#protocol.info 00:00:31:165 Invalid sync header 0

#protocol.info 00:00:31:166

#protocol.info 00:00:31:171 Analysis completed successfully

#protocol.info 00:00:31:171 Savefiles generated:

#protocol.info 00:00:31:172 savepayload0.txt

#protocol.info 00:00:31:172 savepayload1.txt

#protocol.info 00:00:31:173 savepayload2.txt

#protocol.info 00:00:31:173 savepayload3.txt

#protocol.info 00:00:31:174 savepayload4.txt

#protocol.info 00:00:31:174 savepayload5.txt

#protocol.info 00:00:31:175 savepayload6.txt

#protocol.info 00:00:31:175 savepayload7.txt

#testcase.run 00:00:31:195 Done test hit 9 JESD204C_RX_Analyze_Capture

#testcase.run 00:00:31:195 Start test hit 10 JESD204C_RX_Stop

#apix.jesd204c.rx.stop

#testcase.run 00:00:31:197 Done test hit 10 JESD204C_RX_Stop

#testcase.run 00:00:31:197 Start test hit 11 JESD204C_RX_Print_Results_Vector

#apix.jesd204c.rx.printResultsVector

#log.info 00:00:31:199 #jesd204c.results_vector:Command channel faulty header=0,Command channel faulty payload length=0,Command channel reserved type received=0,Sync word faulty pilot signal=0,Sync word faulty EoEMB
signal=0,Sync word faulty parity bit=0,Invalid sync header=0,

#testcase.run 00:00:31:200 Done test hit 11 JESD204C_RX_Print_Results_Vector

#testcase.run 00:00:31:200 Start test hit 12 JESD204C_RX_Copy_Output_Files
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#apix.jesd204c.rx.copyOutputFiles jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt

#client.copyC2X 00:00:31:202 JESD204C/jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt to: JESD204C/jesd204c\_setup\_1G25\_1lane\_ABC\_usecase\_3A\_15\_12\_23.txt

#client.copy.end ready

#log.info 00:00:37:094 Copy done

#client.copyX2C 00:00:37:133 JESD204C/savepayload0.txt to: JESD204C/savepayload0.txt

#client.copy.end ready

#log.info 00:00:43:852 Copy done

#client.copyX2C 00:00:43:852 JESD204C/savepayload1.txt to: JESD204C/savepayload1.txt

#client.copy.end ready

#log.info 00:00:50:116 Copy done

#client.copyX2C 00:00:50:117 JESD204C/savepayload2.txt to: JESD204C/savepayload2.txt

#client.copy.end ready

#log.info 00:00:56:364 Copy done

#client.copyX2C 00:00:56:365 JESD204C/savepayload3.txt to: JESD204C/savepayload3.txt

#client.copy.end ready

#log.info 00:01:02:611 Copy done

#client.copyX2C 00:01:02:612 JESD204C/savepayload4.txt to: JESD204C/savepayload4.txt

#client.copy.end ready

#log.info 00:01:08:974 Copy done

#client.copyX2C 00:01:08:975 JESD204C/savepayload5.txt to: JESD204C/savepayload5.txt

#client.copy.end ready

#log.info 00:01:14:652 Copy done

#client.copyX2C 00:01:14:653 JESD204C/savepayload6.txt to: JESD204C/savepayload6.txt

#client.copy.end ready

#log.info 00:01:20:459 Copy done

#client.copyX2C 00:01:20:460 JESD204C/savepayload7.txt to: JESD204C/savepayload7.txt

#client.copy.end ready

#log.info 00:01:26:720 Copy done

#client.copyX2C 00:01:26:721 JESD204C/RX0\_frame\_file.txt to: JESD204C/RX0\_frame\_file.txt

#client.copy.end ready

#log.info 00:01:33:555 Copy done

#client.copyX2C 00:01:33:555 JESD204C/RX\_frame\_report\_file.txt to: JESD204C/RX\_frame\_report\_file.txt

#client.copy.end ready

#log.info 00:01:42:858 Copy done

#client.copyX2C 00:01:42:859 JESD204C/output\_command\_words.txt to: JESD204C/output\_command\_words.txt

#client.copy.end ready

#log.info 00:01:48:666 Copy done

#testcase.run 00:01:48:667 Done test hit 12 JESD204C\_RX\_Copy\_Output\_Files

#testcase.run 00:01:48:667 All hits run

#testcase.run 00:01:48:668 Done test case JESD204C\_4Lane\_1250Mbps\_Rx

#log.info 00:01:48:668 Releasing license jesd204c-actor

#log.info 00:01:48:713 License released

#log.info 00:01:48:714 Releasing license xstep-runtime

#log.info 00:01:48:758 License released

#log.info 00:01:48:759 Exit from XStep pid : 1418