ETX-220A-MP/10S/20S

Final Test Instructions

Last Updated: 17.02.14

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# Required Test Equipment

|  |  |  |
| --- | --- | --- |
| Generic Name/Description | Manuf. | Model |
| . A Giga generator | RAD | ETX-204A |
| 2. Counter (1.3 GHz) | THURLBY THANDAR | TF830 |
| . DVM | APPA | 93N |
| . SFP-5/6/30 | RAD | SFP-5/6/30 |
| . XFP-1D | RAD | XFP-1D |
| . Fiber Optic 9µ/62.5µ LC-LC | N/A | N/A |
| . ETH cross cable | N/A | N/A |
| . Cable for Giga | N/A | N/A |
| . Terminal software. | N/A | N/A |
| . Boundary Scan Test System | GOEPEL electronic | N/A |
| . Network Protocol Analyzer | N/A | N/A |
| 12. E1 source | N/A | N/A |

# Preparations for Testing

1. Assemble Balcony/ies to the main board of ETX220A-MP in the proper places

. Connect JTAG station to UUT via JTAG Connector.

. Supply voltage to UUT by BP & Power Supply.

. Open JTAG software.(USER NAME: ETX2 ,PASSWORD: rad)

. In UUT field select: ETX220A\_MP\_U19\_SVF\_Programm.

. In Batch field select: All.CBT

. Press the START BATCH button.

. Verify that programming has been completed successfully.

. Turn off the power supply.

. In UUT field select the UUT name.

. Turn on the power supply.

. In Batch field select: All.CBT

. Press the START BATCH button.

. Verify that the test and programming has been completed successfully.

. Mark on traceability label that the UUT passes JTAG Test.

|  |  |
| --- | --- |
| Note | 1. It is possible to check few UUTs in parallel. 2. For testing PTP option in JTAG, there is a need to connect 1PPS,EXT CLK & TOD/1PPS connectors to the special JTAG box. |

# Visual Inspection

N/A

# Basic Operational Tests (BOT)

## Automated BOT

N/A

## Manual BOT

### H.W Identification Test

. Turn on the UUT and perform Format to the flash.

. Burn the pages (H.W Identification file) by page tool.

### Software Download

. Connect the MNG-ETH port of the UUT to the PC.

. Verify that Link led of MNG-ETH port lights (green) & ACT led of MNG-ETH port blinks (orange).

. Open FTP program

. Type: download 1,FILE NAME1 <enter> to download the application.

|  |  |
| --- | --- |
| Note | “FILE NAME1” is approved application according ECO. |

. Type: set-active 1 <enter> to set the application active.

. Type: run <enter> to restart the BOOT process.

### Date & Time Update

. Type: configure system date-and-time time

. Type the current time and press <enter>.

. Type: configure system date-and-time date

. Type the current date and press <enter>.

### Functionality Test.

. Set up the following layout :

For 3XFP/10 Giga ports product:

* Connect the first port of ETX-204A to port 1/1 of ETX-220A-MP.
* Connect port 1/2 of ETX-220A-MP to port 1/3 of ETX-220A-MP.
* Connect port 1/4 of ETX-220A-MP to port 1/5 of ETX-220A-MP.
* Connect port 1/6 of ETX-220A-MP to port 1/7 of ETX-220A-MP.
* Connect port 1/8 of ETX-220A-MP to port 1/9 of ETX-220A-MP.
* Connect fiber-optic loop on port 3/1 of ETX-220A-MP.
* Connect fiber-optic between ports 4/1 to port 4/2 of ETX-220A-MP.
* Connect the second port of ETX-204A to port 1/10 of ETX-220A-MP.

For 2XFP/20 Giga ports product:

* Connect the first port of ETX-204A to port 1/1 of ETX-220A-MP.
* Connect port 1/2 of ETX-220A-MP to port 1/3 of ETX-220A-MP.
* Connect port 1/4 of ETX-220A-MP to port 1/5 of ETX-220A-MP.
* Connect port 1/6 of ETX-220A-MP to port 1/7 of ETX-220A-MP.
* Connect port 1/8 of ETX-220A-MP to port 1/9 of ETX-220A-MP.
* Connect port 1/10 of ETX-220A-MP to port 2/1 of ETX-220A-MP.
* Connect port 2/2 of ETX-220A-MP to port 2/3 of ETX-220A-MP.
* Connect port 2/4 of ETX-220A-MP to port 2/5 of ETX-220A-MP.
* Connect port 2/6 of ETX-220A-MP to port 2/7 of ETX-220A-MP.
* Connect port 2/8 of ETX-220A-MP to port 2/9 of ETX-220A-MP.
* Connect fiber-optic loop on port 4/1 of ETX-220A-MP.
* Connect fiber-optic loop on port 4/2 of ETX-220A-MP.
* Connect the second port of ETX-204A to port 2/10 of ETX-220A-MP.

For 4XFP/10 Giga ports product:

* Connect the first port of ETX-204A to port 1/1 of ETX-220A-MP.
* Connect port 1/2 of ETX-220A-MP to port 1/3 of ETX-220A-MP.
* Connect port 1/4 of ETX-220A-MP to port 1/5 of ETX-220A-MP.
* Connect port 1/6 of ETX-220A-MP to port 1/7 of ETX-220A-MP.
* Connect port 1/8 of ETX-220A-MP to port 1/9 of ETX-220A-MP.
* Connect fiber-optic loop on port 3/1 of ETX-220A-MP.
* Connect port 3/2 of ETX-220A-MP to port 4/1 of ETX-220A-MP.
* Connect fiber-optic loop on port 4/2 of ETX-220A-MP.
* Connect the second port of ETX-204A to port 1/10 of ETX-220A-MP.

|  |  |
| --- | --- |
| Note | It is possible to use ETH/GIGA Ports 5 & 6 in ETX-204A too. |

. Configure the UUT as specified in [Appendix A](#_Appendix_A._UUT_2).

. Configure the Generator as specified in [Appendix B.](#_Appendix_B._ETX-204A_1)

. Verify that the LINK Leds of 1 Giga ports blinks (green), LINK Leds of 10 Giga ports lights (green) and ACT leds of 10 Giga ports blinks (orange).

ACT Leds of the active ports light Orange.

. Perform Data Transmission for 2 minutes.

. Verify no errors in the Generator.

# Environmental Stress Screening (ESS)

1. As specified in the GFTI.

. A data transmission can be performed while ESS instead of performing paragraph 4.2.4

|  |  |
| --- | --- |
| Note | 1. In Case of dual power supplies, turn on only one power supply and perform switching to the other during ESS. 2. In Hardened option, the temperature range is -20 to 65 degrees. |

# Automated Final Tests

The following instructions reflect:

|  |  |
| --- | --- |
|  | Last Updated |
| Final Test Instructions | 17.02.2014 |
| Automatic Tester | 19.03.2014 |

## Complementary Tests (Manual)

From Section 7, perform the following tests only:

|  |
| --- |
| Test |
| [Voltage Test](#_Voltage_Test) |
| [Frequency Test](#_Frequency_Test) |
| [TOD/1PPS Test](#_TOD/1PPS_Test) |

## Setup

1. Connect the cables – power, Control, MNG-ETH, EXT CLK, GbEth and 10GbE.
2. On the Tester’s GUI choose the DUT’s configuration.

## Running the Test

1. Press run24 to start running the test and follow the Instructions on the screen. If the test fails, the display will show a red Fail message and the test will be stopped, and you may resume testing from this point.

2. Verify that the test passed.

## Complementary Tests (Manual)

From Section 7,perform the following tests only:

|  |
| --- |
| Test |
| [Sticker Attachment](#_Sticker_Attachment) |

# Manual Final Tests

## Voltage Test

. Turn on one power supply and wait until the BOOT processing is done.

. Check that the voltage on C52 is between 11.5V to 12.5V

|  |  |
| --- | --- |
| Note | It is possible to adjust the voltage via the trimmer in the power supply. |

. Turn on the second power supply.

Turn off the first power supply.

. Check that the voltage on C52 is between 11.5V to 12.5V

. Check the values on the following measuring points:

|  |  |
| --- | --- |
| Measuring Point | Value |
| J12/102 | 5V ± 0.2V |
| TP58 | 1V ± 0.04V |
| TP2 | 3.3V ± 0.12V |
| TP3 | 1.2V ± 0.04V |
| TP1 | 1.8V ± 0.05V |
| TP57 | 0.9V ± 0.025V |
| TP14 | 1.1V ± 0.04V |
| TP59 | 2.5V ± 0.09V |

6. In case of 20 Giga ports, check the values on the following measuring points too

(ETX220A-MP-BALC PCB):

|  |  |
| --- | --- |
| Measuring Point | Value |
| TP-V2V5 | 2.5V ± 0.09V |
| TP-V1V | 1V ± 0.04V |
| TP-3.3V2V5e of 20 portsV | 3.3V ± 0.12V |

## Frequency Test

Check the values on the following measuring points:

|  |  |
| --- | --- |
| Measuring Point | Value |
| X1/4  (Check only if X1 is not assembled) | 19.44 MHz ±972 Hz |
| R4,R207 (G1,G7) | 25MHz ±1.25KHz |
| Y2/3 (GMUX-XFP) | 156.250MHz ±7.81KHz |

## Fans & Temperature test

. Verify that the fans rotate.

. Type: logon debug <enter>

. Generate the password from the Key code that appears in the screen.

. Type the password.

. Type: debug thermostat

6. Type: set-point upper 60

set-point lower 55

7. Type: show status and verify that state is: off off off off

8. Type: set-point lower 20

set-point upper 30

9. Type: show status and verify that state is: on on on on

10. Type: show status and verify that “Current Temperature” is changing during the test.

11. Type: set-point upper 40

set-point lower 32

## Power supply Identification Test

. Turn on the two power supplies.

. Type: configure chassis

show environment

. Verify that the type of the power supplies is shown correctly (“AC” or “DC”)

|  |  |
| --- | --- |
| Note | In application version less than 5.5,P.S DC shows as AC. |

. Verify that the led of the power supplies lights green.

. Turn off power supply 2.

. Verify that the status of the power supply 2 is “Failed”

. Verify that the led of the power supply lights red.

. Remove power supply 2 from UUT.

. Verify that the status of the power supply 2 is “Not exist”.

. Verify that the led of the power supply doesn’t light.

. Assemble power supply 2 and turn it on.

. Turn off power supply 1.

. Verify that the status of the power supply 1 is “Failed”.

. Verify that the led of the power supply lights red.

. Remove power supply 1 from UUT.

. Verify that the status of the power supply 1 is “Not exist”.

. Verify that the led of the power supply doesn’t light.

. Assemble power supply 1.

## Dying Gasp Test

|  |  |
| --- | --- |
| Note | Perform this test with power supply AC. |

. Configure the UUT as specified in [Appendix C](#_Appendix_C._UUT).

. Connect the UUT to the computer via MNG ETH port & perform RESET to the UUT.

. Open a Network Protocol Analyzer program (like WireShark).

. Verify that only one power supply is active.

. Send ping to the UUT. Verify ACT led lights/blinks.

6. Turn off the power supply and verify that a Dying gasp event was detected.

7. Repeat the test for the second power supply.

## XFP Identification Test

. Type: configure port ethernet (Slot/Port)

show status

. Verify that the Connector Type is “XFP In”.

. Repeat this test on each of XFP port.

4. Verify that the Manufacturer Part Number is “XFP-1D”   
(or other according the type of the XFP)

## SFP Identification Test

. Type: configure port ethernet (Port)

show status

. Verify that the Connector Type is “SFP In”.

. Repeat this test on each of SFP port.

4. Verify that the Manufacturer Part Number is “SFP-30”   
(or other according the type of the SFP)

## Date & Time Test

. Type: configure system

show system-date

. Verify the current date and time.

## Data Transmission test

1. Repeat section [4.2.4](#_Functionality_Test.)

|  |  |
| --- | --- |
| Note | Perform this test only if data transmission was not tested while ESS. |

1. Configure the UUT as specified in [Appendix A (A4).](#_Appendix_A._UUT_2)
2. Perform Data Transmission for 2 minutes.
3. Verify no errors in the Generator.

|  |  |
| --- | --- |
| Note | Perform section 2-4 only for 3XFP/10 Giga ports product. |

## EXT CLK Test

. Verify that SD led of EXT CLK port is off.

. Configure the UUT as specified in [Appendix D](#_UUT_Configure_for).

3. Type: configure system clock

domain 1

show status

4. Verify the following message:

System Clock Source : 0 State : Freerun

5. Connect a E1 source to ETX CLK connector (RJ)

6. Verify that SD led of EXT CLK port lights (green).

7. Wait few seconds and Type: show status.

8. Verify the following message:

System Clock Source : 1 State : Locked

## TOD/1PPS Test

|  |  |
| --- | --- |
| Note | This test is done in JTAG Test, if these connectors exists |

## TST/ALR Led Test

. Type: configure reporting

mask-minimum-severity log major

. Verify that TST/ALR led is off.

3. Type: no mask-minimum-severity log

4. Verify that TST/ALR led lights (red).

|  |  |
| --- | --- |
| Note | If a second P.S was inserted during the test of the UUT, In this test the second P.S must be exist & operated. |

## Connect Mac to ID

Connect the MAC to ID Number by Key tool.

|  |  |
| --- | --- |
| Note | The MAC is shown in: configure system 🡪 show device-information. |

## Set To Default

1. Type: admin factory-default-all <enter> to perform set to default.

Type: y to approve the action.

. Mark on traceability label that the UUT passes all testes.

# Preparations for Shipment

As specified in the GFTI.

# Factory Setting

As specified in the GFTI.

# Safety Test

As specified in the GFTI.

## 

Appendix A. UUT Configure for Data Transmission Test

* 1. For 3XFP/10 Giga ports product:

. Type the following commands:

exit all

config flows

classifier-profile "all" match-any

match all

exit

flow "1\_\_1\_2"

classifier "all"

ingress-port ethernet 1/1

egress-port ethernet 1/2 queue 0 block 0/1

no shutdown

exit

flow "1\_\_2\_1"

classifier "all"

ingress-port ethernet 1/2

egress-port ethernet 1/1 queue 0 block 0/1

no shutdown

exit

flow "1\_\_3\_4"

classifier "all"

ingress-port ethernet 1/3

egress-port ethernet 1/4 queue 0 block 0/1

no shutdown

exit

flow "1\_\_4\_3"

classifier "all"

ingress-port ethernet 1/4

egress-port ethernet 1/3 queue 0 block 0/1

no shutdown

exit

flow "1\_\_5\_6"

classifier "all"

ingress-port ethernet 1/5

egress-port ethernet 1/6 queue 0 block 0/1

no shutdown

exit

flow "1\_\_6\_5"

classifier "all"

ingress-port ethernet 1/6

egress-port ethernet 1/5 queue 0 block 0/1

no shutdown

exit

flow "1\_\_7\_8"

classifier "all"

ingress-port ethernet 1/7

egress-port ethernet 1/8 queue 0 block 0/1

no shutdown

exit

flow "1\_\_8\_7"

classifier "all"

ingress-port ethernet 1/8

egress-port ethernet 1/7 queue 0 block 0/1

no shutdown

exit

flow "1\_9\_\_3\_1"

classifier "all"

ingress-port ethernet 1/9

egress-port ethernet 3/1 queue 0 block 0/1

no shutdown

exit

flow "3\_1\_\_1\_9"

classifier "all"

ingress-port ethernet 3/1

egress-port ethernet 1/9 queue 0 block 0/1

no shutdown

exit

flow "1\_10\_\_4\_1"

classifier "all"

ingress-port ethernet 1/10

egress-port ethernet 4/1 queue 0 block 0/1

no shutdown

exit

flow "4\_1\_\_1\_10"

classifier "all"

ingress-port ethernet 4/1

egress-port ethernet 1/10 queue 0 block 0/1

no shutdown

exit

exit all

config port ethernet 4/2

loopback remote

exit all

* 1. For 2XFP/20 Giga ports product:

. Type the following commands:

exit all

config port Ethernet 4/2

shutdown

functional-mode user

no shutdown

exit all

config flows

classifier-profile "all" match-any

match all

exit

flow "1\_\_1\_2"

classifier "all"

ingress-port ethernet 1/1

egress-port ethernet 1/2 queue 0 block 0/1

no shutdown

exit

flow "1\_\_2\_1"

classifier "all"

ingress-port ethernet 1/2

egress-port ethernet 1/1 queue 0 block 0/1

no shutdown

exit

flow "1\_\_3\_4"

classifier "all"

ingress-port ethernet 1/3

egress-port ethernet 1/4 queue 0 block 0/1

no shutdown

exit

flow "1\_\_4\_3"

classifier "all"

ingress-port ethernet 1/4

egress-port ethernet 1/3 queue 0 block 0/1

no shutdown

exit

flow "1\_\_5\_6"

classifier "all"

ingress-port ethernet 1/5

egress-port ethernet 1/6 queue 0 block 0/1

no shutdown

exit

flow "1\_\_6\_5"

classifier "all"

ingress-port ethernet 1/6

egress-port ethernet 1/5 queue 0 block 0/1

no shutdown

exit

flow "1\_\_7\_8"

classifier "all"

ingress-port ethernet 1/7

egress-port ethernet 1/8 queue 0 block 0/1

no shutdown

exit

flow "1\_\_8\_7"

classifier "all"

ingress-port ethernet 1/8

egress-port ethernet 1/7 queue 0 block 0/1

no shutdown

exit

flow "1\_\_9\_10"

classifier "all"

ingress-port ethernet 1/9

egress-port ethernet 1/10 queue 0 block 0/1

no shutdown

exit

flow "1\_\_10\_9"

classifier "all"

ingress-port ethernet 1/10

egress-port ethernet 1/9 queue 0 block 0/1

no shutdown

exit

flow "2\_\_1\_2"

classifier "all"

ingress-port ethernet 2/1

egress-port ethernet 2/2 queue 0 block 0/1

no shutdown

exit

flow "2\_\_2\_1"

classifier "all"

ingress-port ethernet 2/2

egress-port ethernet 2/1 queue 0 block 0/1

no shutdown

exit

flow "2\_\_3\_4"

classifier "all"

ingress-port ethernet 2/3

egress-port ethernet 2/4 queue 0 block 0/1

no shutdown

exit

flow "2\_\_4\_3"

classifier "all"

ingress-port ethernet 2/4

egress-port ethernet 2/3 queue 0 block 0/1

no shutdown

exit

flow "2\_\_5\_6"

classifier "all"

ingress-port ethernet 2/5

egress-port ethernet 2/6 queue 0 block 0/1

no shutdown

exit

flow "2\_\_6\_5"

classifier "all"

ingress-port ethernet 2/6

egress-port ethernet 2/5 queue 0 block 0/1

no shutdown

exit

flow "2\_\_7\_8"

classifier "all"

ingress-port ethernet 2/7

egress-port ethernet 2/8 queue 0 block 0/1

no shutdown

exit

flow "2\_\_8\_7"

classifier "all"

ingress-port ethernet 2/8

egress-port ethernet 2/7 queue 0 block 0/1

no shutdown

exit

flow "2\_9\_\_4\_1"

classifier "all"

ingress-port ethernet 2/9

egress-port ethernet 4/1 queue 0 block 0/1

no shutdown

exit

flow "4\_1\_\_2\_9"

classifier "all"

ingress-port ethernet 4/1

egress-port ethernet 2/9 queue 0 block 0/1

no shutdown

exit

flow "2\_10\_\_4\_2"

classifier "all"

ingress-port ethernet 2/10

egress-port ethernet 4/2 queue 0 block 0/1

no shutdown

exit

flow "4\_2\_\_2\_10"

classifier "all"

ingress-port ethernet 4/2

egress-port ethernet 2/10 queue 0 block 0/1

no shutdown

exit all

* 1. For 4XFP/10 Giga ports product:

1. Type the following commands:

exit all

config port Ethernet 4/2

shutdown

functional-mode user

no shutdown

exit all

config flows

classifier-profile "all" match-any

match all

exit

flow "1\_\_1\_2"

classifier "all"

ingress-port ethernet 1/1

egress-port ethernet 1/2 queue 0 block 0/1

no shutdown

exit

flow "1\_\_2\_1"

classifier "all"

ingress-port ethernet 1/2

egress-port ethernet 1/1 queue 0 block 0/1

no shutdown

exit

flow "1\_\_3\_4"

classifier "all"

ingress-port ethernet 1/3

egress-port ethernet 1/4 queue 0 block 0/1

no shutdown

exit

flow "1\_\_4\_3"

classifier "all"

ingress-port ethernet 1/4

egress-port ethernet 1/3 queue 0 block 0/1

no shutdown

exit

flow "1\_\_5\_6"

classifier "all"

ingress-port ethernet 1/5

egress-port ethernet 1/6 queue 0 block 0/1

no shutdown

exit

flow "1\_\_6\_5"

classifier "all"

ingress-port ethernet 1/6

egress-port ethernet 1/5 queue 0 block 0/1

no shutdown

exit

flow "1\_\_7\_8"

classifier "all"

ingress-port ethernet 1/7

egress-port ethernet 1/8 queue 0 block 0/1

no shutdown

exit

flow "1\_\_8\_7"

classifier "all"

ingress-port ethernet 1/8

egress-port ethernet 1/7 queue 0 block 0/1

no shutdown

exit

flow "1\_9\_\_3\_1"

classifier "all"

ingress-port ethernet 1/9

egress-port ethernet 3/1 queue 0 block 0/1

no shutdown

exit

flow "3\_1\_\_1\_9"

classifier "all"

ingress-port ethernet 3/1

egress-port ethernet 1/9 queue 0 block 0/1

no shutdown

exit

flow "1\_10\_\_3\_2"

classifier "all"

ingress-port ethernet 1/10

egress-port ethernet 3/2 queue 0 block 0/1

no shutdown

exit

flow "3\_2\_\_1\_10"

classifier "all"

ingress-port ethernet 3/2

egress-port ethernet 1/10 queue 0 block 0/1

no shutdown

exit

flow "4\_1\_\_4\_2"

classifier "all"

ingress-port ethernet 4/1

egress-port ethernet 4/2 queue 0 block 0/1

no shutdown

exit

flow "4\_2\_\_4\_1"

classifier "all"

ingress-port ethernet 4/2

egress-port ethernet 4/1 queue 0 block 0/1

no shutdown

exit

* 1. Additional Data Transmission Test For 3XFP/10 Giga ports product:

. Type the following commands:

exit all

config port ethernet 4/2

no loopback

shutdown

functional-mode user

no shutdown

exit all

config flows

no flow "1\_10\_\_4\_1"

no flow "4\_1\_\_1\_10"

flow "1\_10\_\_4\_2"

classifier "all"

ingress-port ethernet 1/10

egress-port ethernet 4/2 queue 0 block 0/1

no shutdown

exit

flow "4\_2\_\_1\_10"

classifier "all"

ingress-port ethernet 4/2

egress-port ethernet 1/10 queue 0 block 0/1

no shutdown

exit all

config port ethernet 4/1

loopback remote

exit all

1. ETX-204A Generator Configure

. In Main Menu screen choose: Generator.

. In Generator mode choose: GE.

. In Packet rate choose: 1,200,000.

. To save the configuration performs save.

1. UUT Configure for Dying Gasp Test

. Type the following commands:

exit all

configure port svi 1

no shutdown

exit

exit

flows

classifier-profile u match-any match untagged

flow 10

classifier u

ingress-port svi 1

egress-port ethernet 0/101 queue 0 block 0/1

no shutdown

exit

flow 11

classifier u

no policer

ingress-port ethernet 0/101

egress-port svi 1 queue 0

no shutdown

exit

exit

router 1

interface 1

address 10.10.10.12/24

bind svi 1

no shutdown

exit

exit

management

snmp

target-params 1

message-processing-model snmpv3

version usm

security name initial level no-auth-no-priv

no shutdown

exit

target mypc

target-params 1

address udp-domain 10.10.10.10

no shutdown

tag-list unmasked

trap-sync-group 1

exit all

save

|  |  |
| --- | --- |
| Note | The last field of the IP address can be a number between 2-255 except 10. |

1. UUT Configure for EXT CLK Test

1. Type the following commands:

exit all

configure system clock station 1/1

shutdown

line-code hdb3

no shutdown

exit

domain 1

source 1 station 1/1

quality-level prc

priority 1

wait-to-restore 0

exit all