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JC2401-mw Temperature Test Report

Release Date	<i>2008/12/04</i>
Test Module	JC2401-mw
Tested Version	SW: N/A HW: RD Sample SN: N/A
Tester	Kenny Lee
Tested Function	JC2401-mw temperature test

Test Result:

◆ **- 40°C Cold Start Test:**

It is **passed** because DUT booting is stable and no error during the serial transmission.

◆ **-40°C ~70°C Stress Test:**

It is **passed** because no packet loss or no error during the serial transmission.

Purpose:

To do temperature test the first time.

Topology:



Test Tools:

Hardware:

1. JetCon 2401-mw × 1pcs
2. MOXA UPort 1650-8
3. RS232 cable
4. Fiber line (ST)
5. KSON Programmable Temperature & Humidity Chamber: THS-A4H+100

Software:

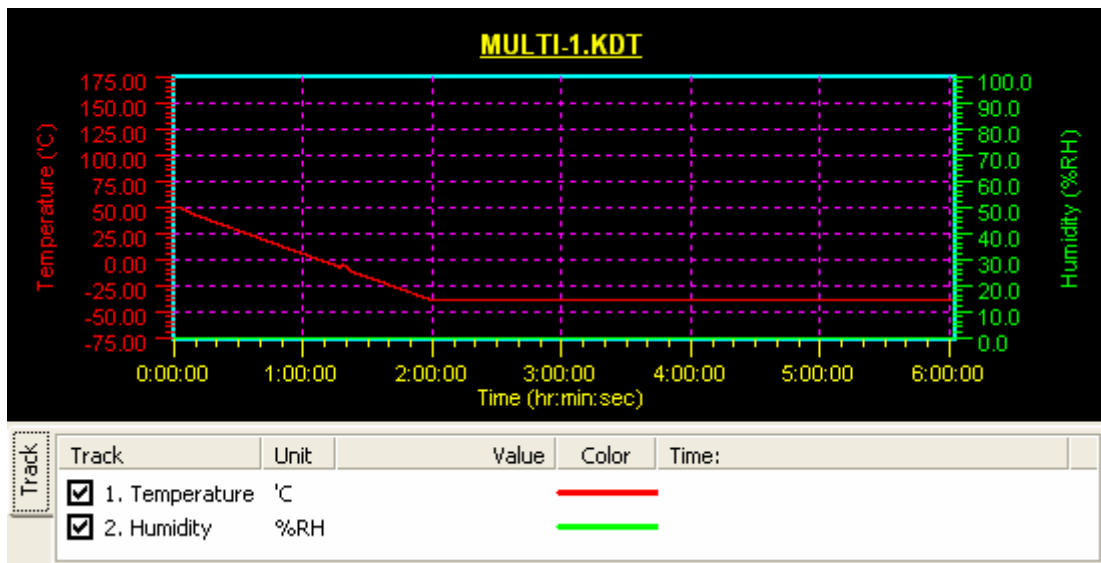
PComm Performance Analyzer 2.0

Test principle:

Cold Start (Low temperature):

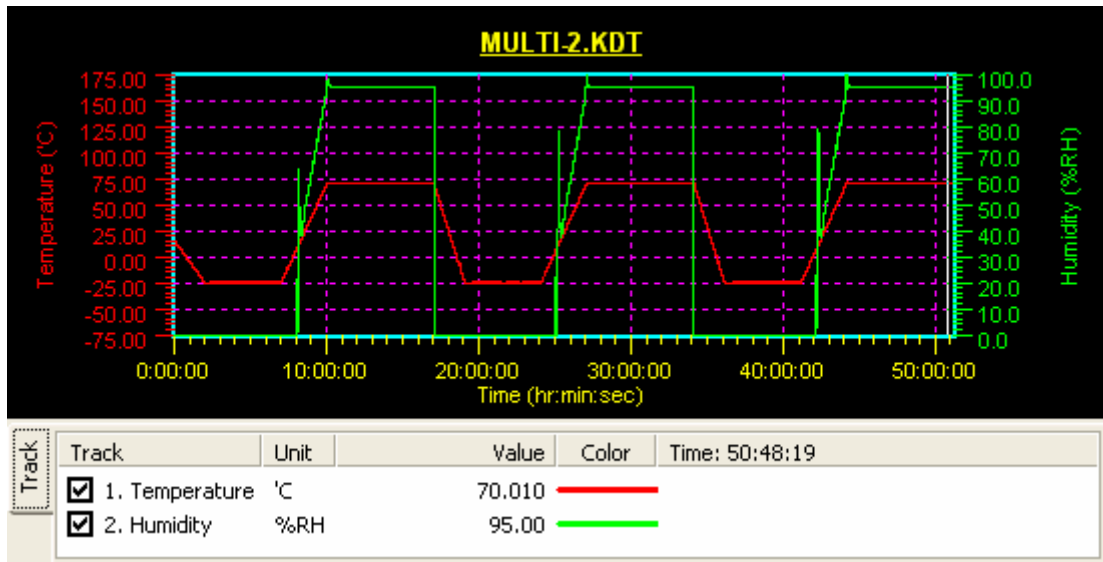
Keep -40°C , boot DUT then use Performance Analyzer to do serial transmission.

Observe that packet transmitting and booting status in this temperature.



Stress Test:

Between -40°C and 70°C (RH 95%), use Performance Analyzer to do serial transmission. Observe that packet transmitting status during this temperature.



Pass/Fail Standard:

Cold Start (Low temperature):

Pass:

1. Using Performance Analyzer to perform traffic test, there are no data error or data lose.
2. After booting, DUT should work property.

Fail:

1. During the test, we received any data error or data lose.
2. After booting, DUT cannot work property.

Stress Test:

Pass:

During the test, we should not receive any data error or data lose.

Fail:

During the test, we received any data error or data lose.

Test procedure:

1. Take switch into the THS-A4H+100.
2. Reducing temperature to -40°C in 2 hours.
3. To keep -40°C for 3 hours then booting DUT and observe booting status.



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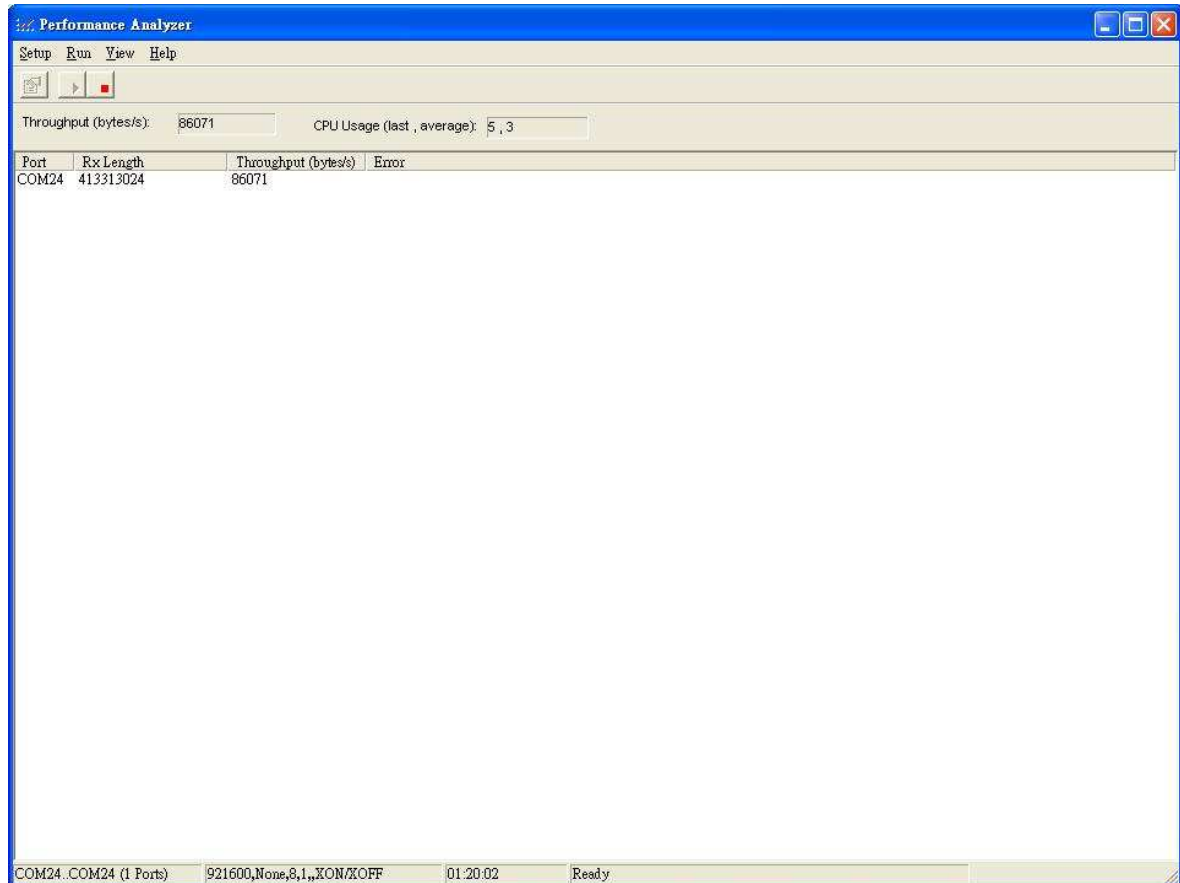
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4. After 60 sec, use Performance Analyzer to do serial transmission continuously for an hour. (Refer to Appendix A-1)
5. To use Performance Analyzer to do serial transmission in stress test from -25°C to 70°C for 17 hours. (Refer to Appendix A-2)

Test result:

Appendix A-1: Full Duplex Tx/Rx Cold Start Test(- 40°C)

- Transmit Mode: burst 1 hr
- Test pairs: Loopback
- Power supply: DC24V



Appendix A-2: Full Duplex Tx/Rx Stress Test (- 40°C ~70°C)

- Transmit Mode: burst 17 hr
- Test pairs: Loopback
- Power supply: DC24V

