Operation Temperature Cycles Test Report

Model: *POE-DX30T*

H/W Version : A1

Test Engineer : Mark Date : 2021/9/24

Designer : Kenny Date : 2021/9/24

PM : Cathy Date : 2021/9/24

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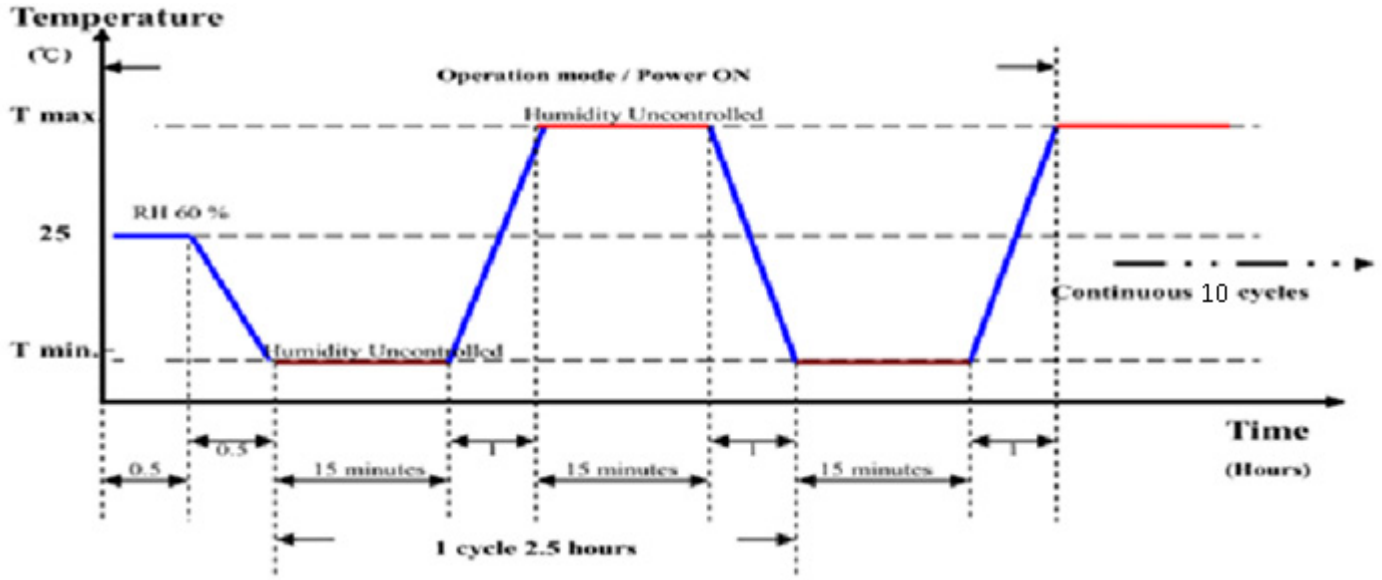
Thermal profile Test:

1. DUT stress test.

1.1 Purpose:

1. -40℃, 15 minute
2. 75℃ 15 minute
3. Duration: 10cycle



1.2 Test equipment:

Equipment	Qty
DUT	1
Power adapter (PA1024-5601B053)	1
POE TEST machine (DUT)	1
SmartBits (Spirent C50A)	1
Loader Chroma 63102A	1

1.3 Test criteria:

1.Burning machine is working properly at 75℃ 15min & -40℃15min → Duration: 10cycle.

2.Stress Smart bits test was no packet loss.

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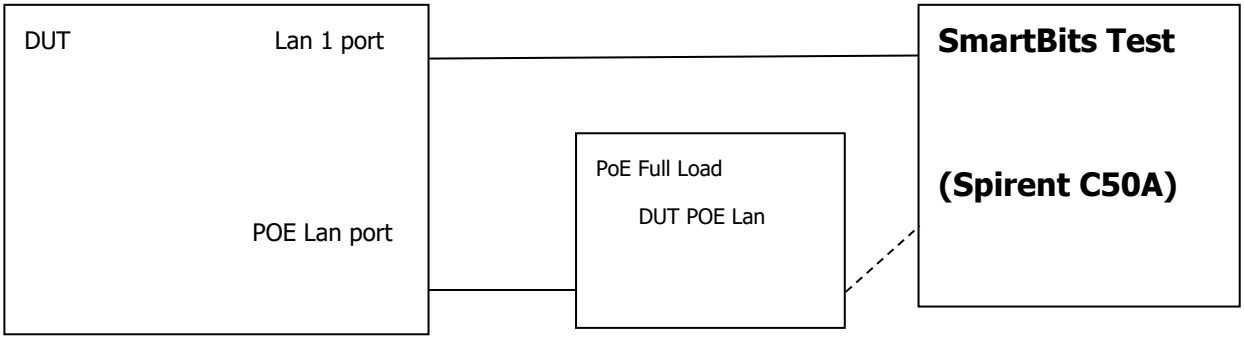
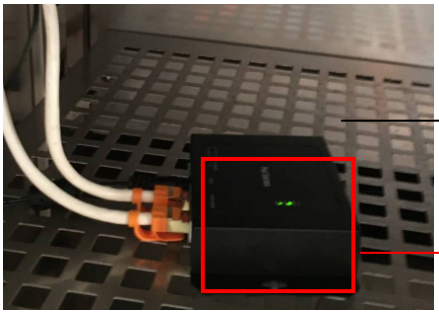
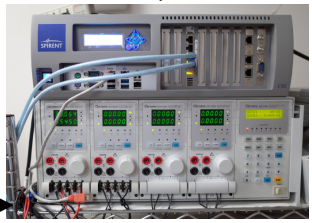
1.4 Test setup:





Smart Bit test by Spirent C50A

POE54V->in to the DC Loader
Chroma 63102A
(Become POE Full Load≒30.00W)



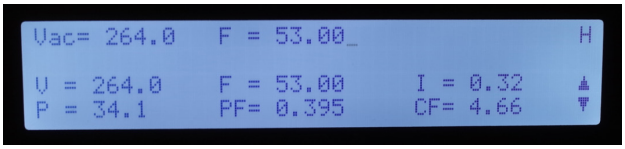
Set Cold TEMP -40℃ **Set Heat TEMP 75℃** **→Recycle time:10**

1.5 Test procedure:

1.5.1 Follow up test configuration to setup the test platform.

1.5.2 Each Load use POE Splitter on the POE port, which can make DUT with (POE 90W) ;after to reach its power output of (AC side 264V->I=0.32A≒34.1W) ∞ (Full load side 0.54A ≒30W)to full load test.

AC side 264.0V→≒34.1W



1.5.3 Setup the ambient at <u>75 degree C 15min</u> → <u>-40 degree C 15min **→duration: cycles 10 times.**

1.5.4 Stress SmartBits TEST to burning test.

1.5.5 PC record Smart bits data.

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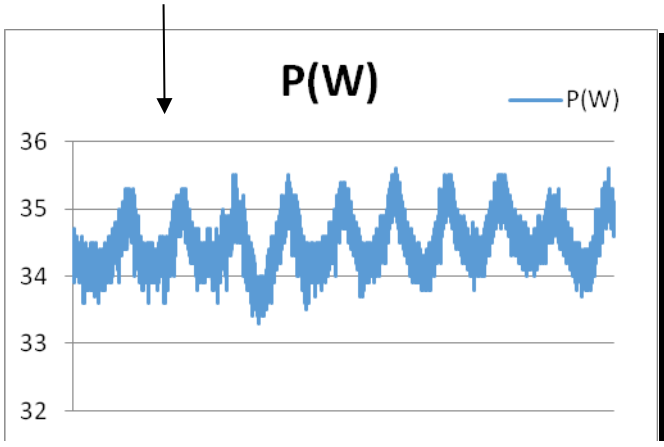
1.6 Test result:

Test results:

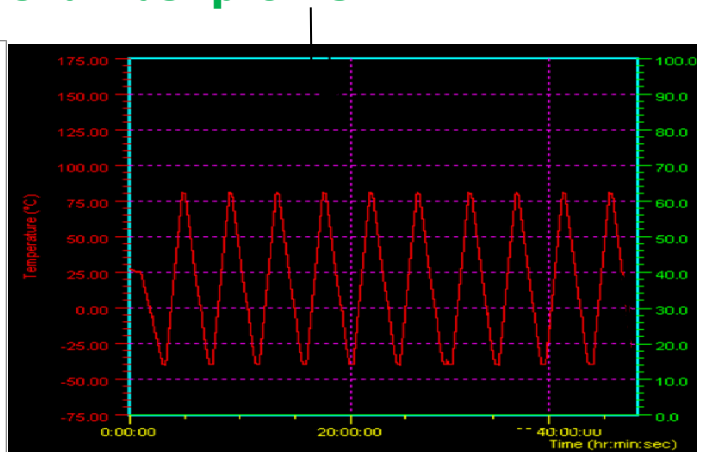
A. After smart Bits test TEMP cycle 10 time no packet loss.

Port Name	Total Tx Count (Frames)	Total Rx Count (Frames)	Total Tx Count (bits)	Total Rx Count (bits)
Port //1/1	345,982,954,809	345,982,954,860	2,210,195,229,779,6...	2,210,195,230,093,4...
Port //1/2	345,982,954,860	345,982,954,806	2,210,195,230,093,4...	2,210,195,229,760,1...

Power Log



Chamber profile



AC power adapter load rage of power output (AVG:34W±1).

The Power consistent with the test temperature profile. Conclusion the Operation temperature cycles test give pass

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