



Test Report

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Applicant : Onion Corporation

Address : 895 Don Mills Road, Tower-2, Suite 900, Toronto, Ontario, M3C 1W3, Canada

Name of sample : Omega2S

Receiving Date : January 06, 2019

Test Date : January 08, 2020~January 10, 2020

Test Location : Guangzhou Reliability Laboratory

Test Method : IEC 60068-2-1:2007; IEC 60068-2-2:2007

Test Item : High temperature test; Low temperature test

Decision Rule : According to applicant requirements

Conclusion : See 2. Conclusion section

Signed for and on behalf of
Shenzhen United Testing Technology Co.,Ltd

2020-01-15

Issue Date



LIN Ze
Approved Signatory

深圳市优耐检测技术有限公司
Shenzhen United Testing Technology Co.,Ltd.

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1. Sample information

For samples, the information provided by the applicant is as follows:

Product Model : OM-O2S/OM-O2SP
Sample Quantity : 2pcs
Supplier : Onion Corporation
Sample Description : Internet product

2. Conclusion

The sample was detected and according to the detection results, the conclusion are as follows:

Test item		Test Method	Decision Rule	Conclusion
Test data chapter No.	Item			
3	High temperature test	IEC 60068-2-2:2007	According to applicant requirements	Pass
4	Low temperature test	IEC 60068-2-1:2007	According to applicant requirements	Pass

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3. Test Item: High temperature test

3.1. Sample number: 1#~2#

3.2. Test equipment:

Name of device	Model	Number	Calibration Effective Deadline
High and low temperature humidity test chamber.	DSW1470	DC04	2020-12-11

3.3. Laboratory temperature and humidity: temperature: $23\pm5^{\circ}\text{C}$; humidity: $50\pm 10\%\text{RH}$

3.4. Test standard: IEC 60068-2-2:2007

3.5. Test conditions:

Test temperature: 85°C
Test time: 10 hours
Sample status: Connect the network
See the appendix for network connection instructions

3.6. Decision Rule:

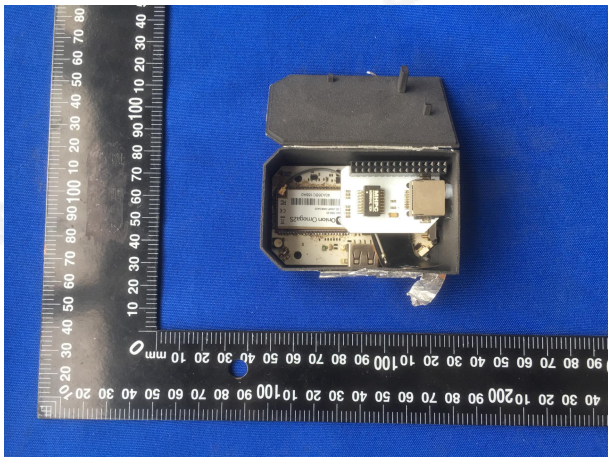

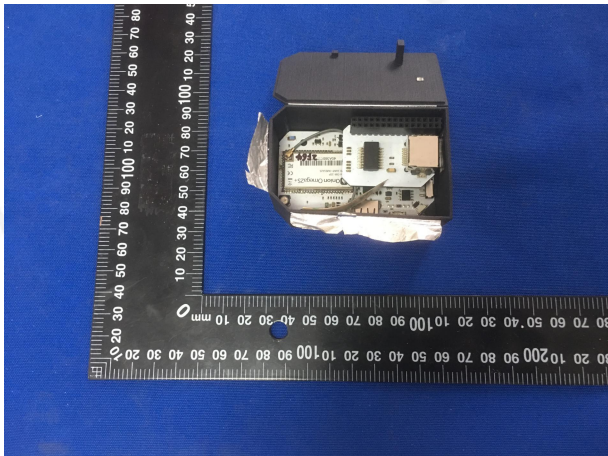


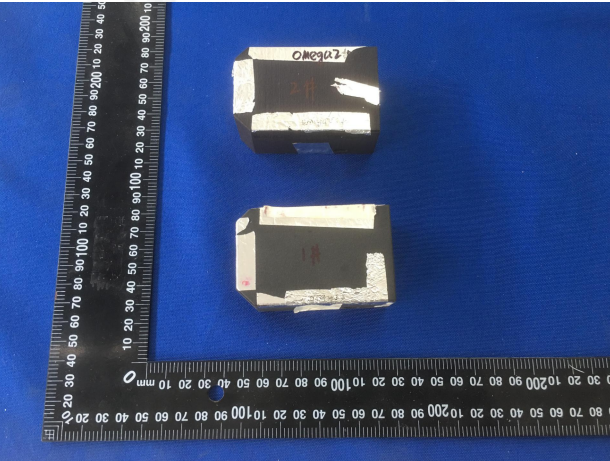
The computer's network connection test is not disconnected

3.7. Test result:

Sample number	Test result	Determine
1#	After the test, The computer's network connection test is not disconnected	Pass
2#	After the test, The computer's network connection test is not disconnected	Pass

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3.8. Sample Photos:

	
<p>Before the testing (1#)</p>	<p>In testing (1#)</p>
	
<p>Before the testing (2#)</p>	<p>In testing (2#)</p>
	
<p>Test display interface</p>	<p>After the test</p>



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4. Test Item: Low temperature test

4.1 .Sample number: 1#~2#

4.2 .Test equipment:

Name of device	Model	Number	Calibration Effective Deadline
High and low temperature humidity test chamber.	DSW1470	DC04	2020-12-11

4.3 .Laboratory temperature and humidity: temperature: 23±5℃; humidity: 50±10%RH

4.4 .Test standard: IEC 60068-2-1:2007

4.5 .Test conditions:

Test temperature: -40 °C Test time:10 hours Sample status:Connect the network

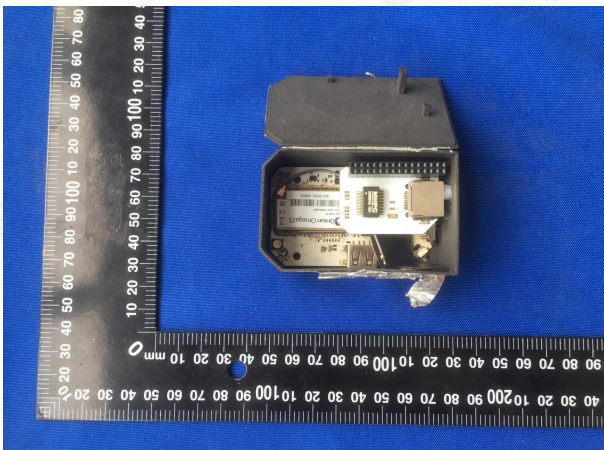

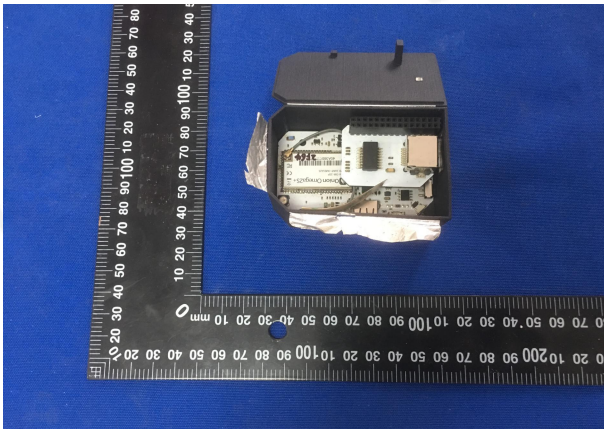


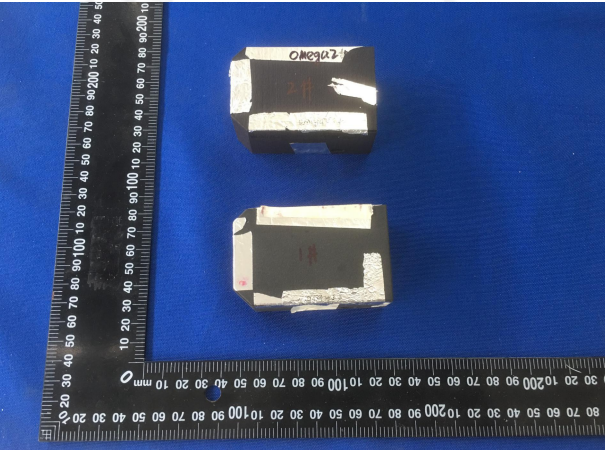
4.6 .Decision Rule:

The computer's network connection test is not disconnected
--

4.7 .Test result:

Sample number	Test result	Determine
1#	After the test, The computer's network connection test is not disconnected	Pass
2#	After the test, The computer's network connection test is not disconnected	Pass

4.8 .Sample Photos:

	
<p>Before the testing (1#)</p>	<p>In testing (1#)</p>
	
<p>Before the testing (2#)</p>	<p>In testing (2#)</p>
	
<p>Test display interface</p>	<p>After the test</p>

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The sample picture is only used to inform the applicant that the sample received by the laboratory is shown in the picture, which does not prove the appearance and quality of the applicant's products.

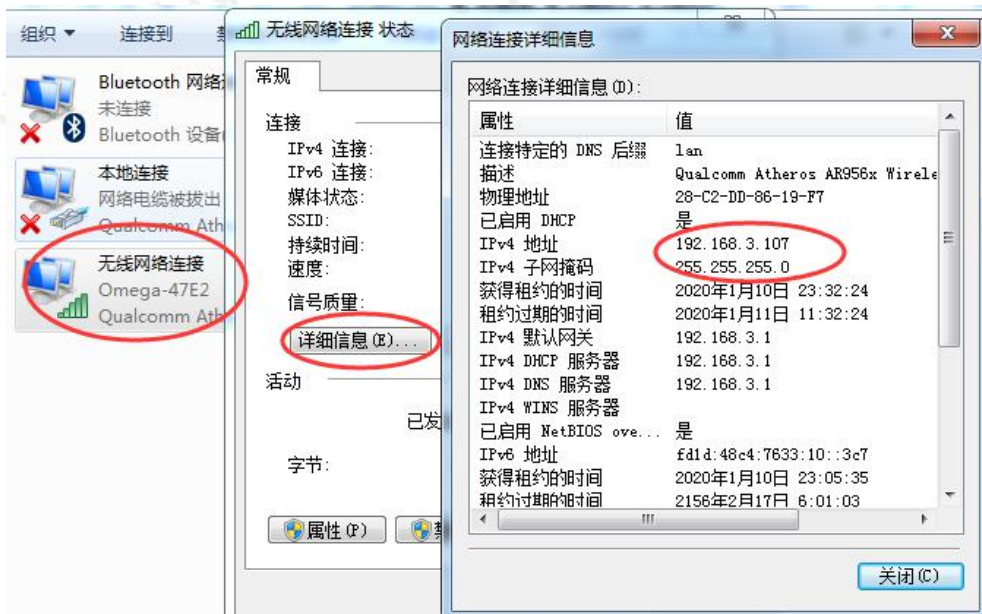
Appendix:

Omega2S Iperf Test Operating Instructions

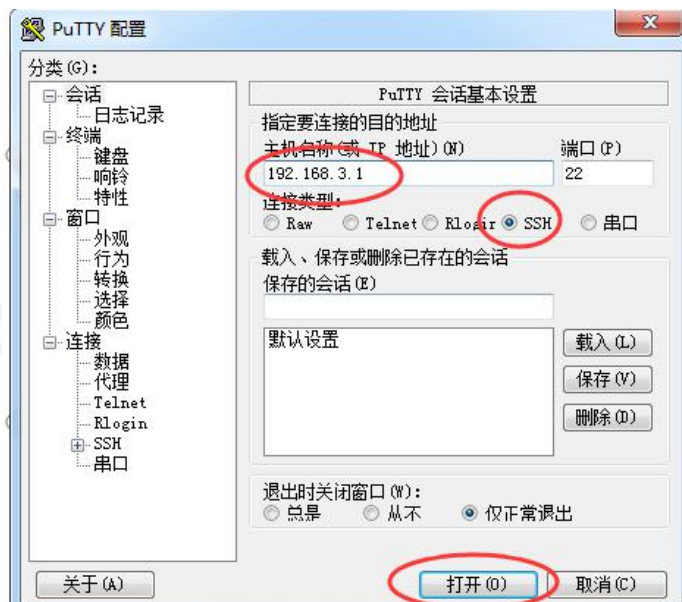
1. Connect the Micro USB Cable to Omega2 Pro, turn on the PowerSwitch.
Make sure the Blue LED is light.
2. PC Connect Omega2S's WIFI AP
Connect the wifi network.
Wifi name: Omega-xxxx
Password : 12345678



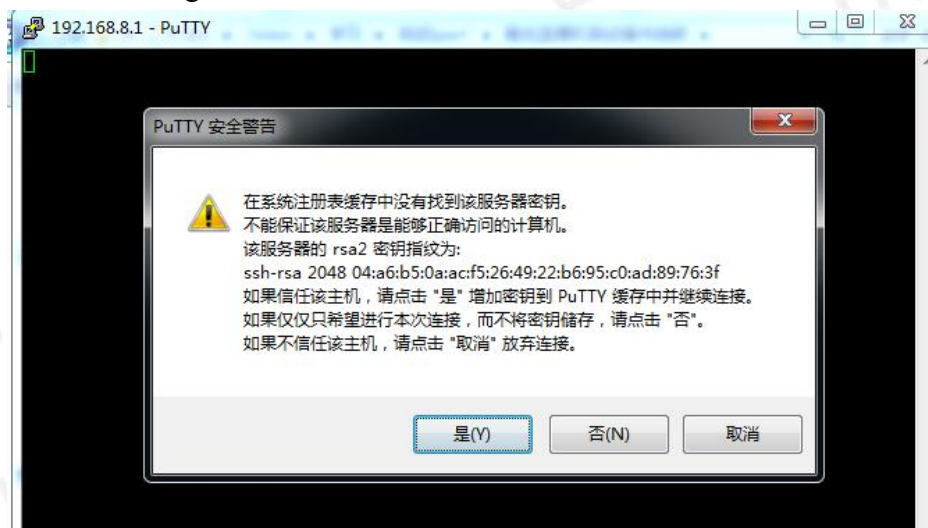
After connecting to Omega2S's wifi AP, Check the PC wifi connection state detail, and write down the IP. Here my wifi IP is 192.168.3.107



3. Open putty, and connect the Omega2S by SSH.
Choose SSH option, the SSH Connect IP is 192.168.3.1



The first time connect Omega2S it will show a confirmation box, and select "Yes".



After the confirmation box, it will show a command Line windows.and enter the account and password as below:

Login account: root

Password: onioneer

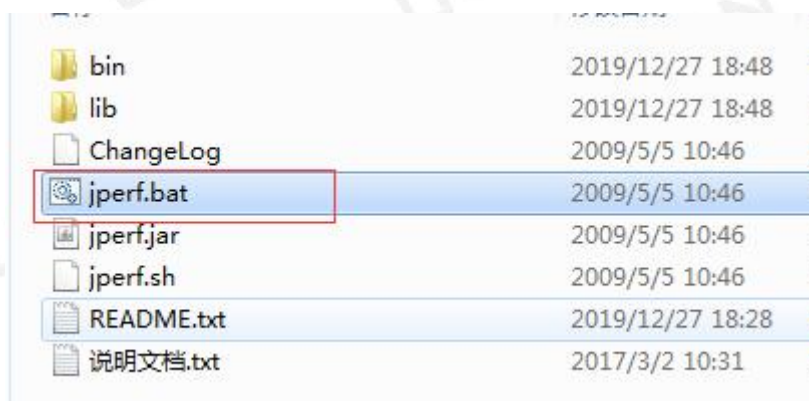

```

root@Omega-15B1: ~
login as: root
root@192.168.3.1's password:
Server refused to set environment variables

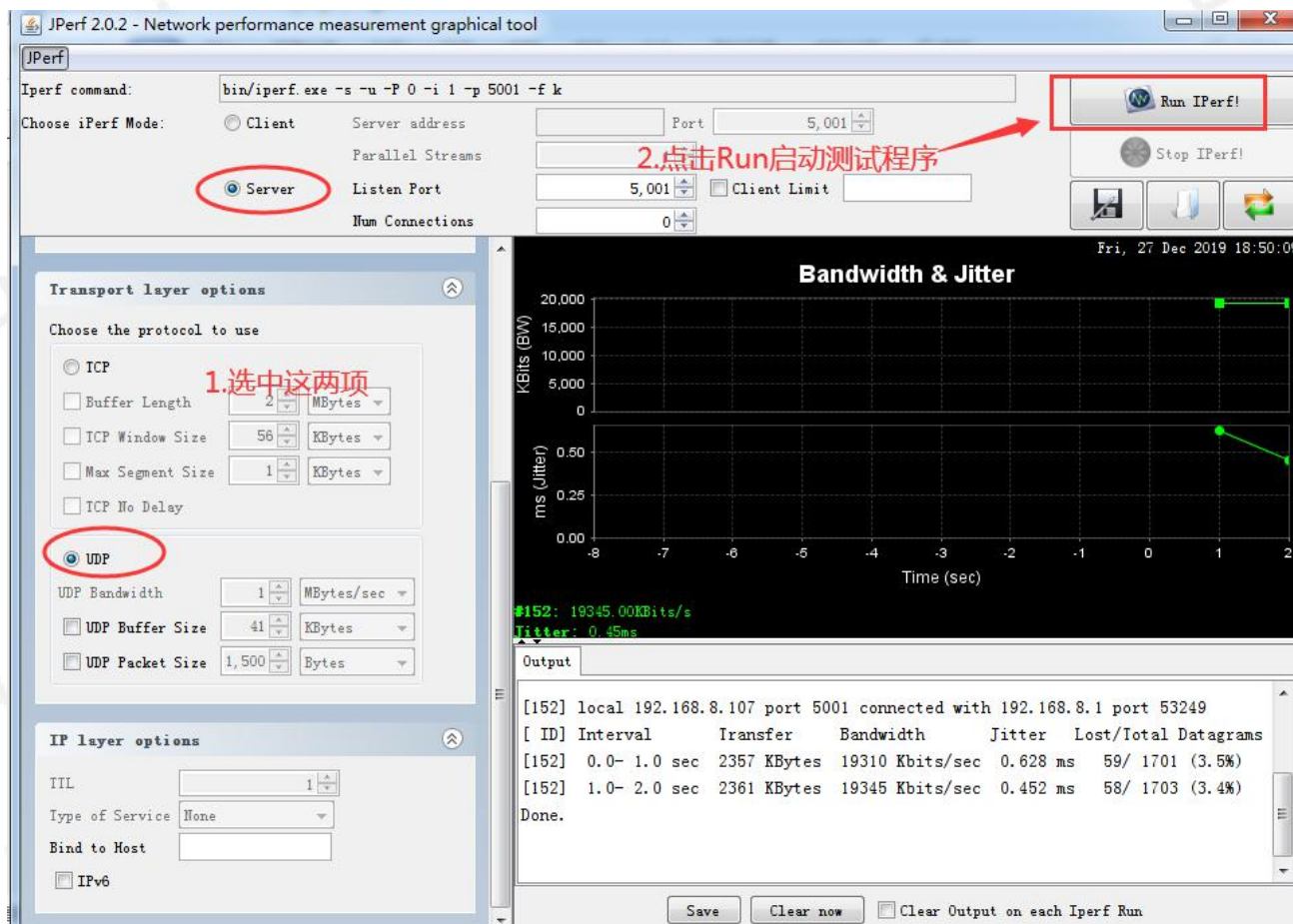
BusyBox v1.28.3 () built-in shell (ash)

Onion Omega
WHAT WILL YOU INVENT?
l-ware: 0.3.2 b230
root@Omega-15B1:~#
  
```

4. Start the JPerf.



Setting the Jperf as below chart, and click “Run IPerf”, start the test server.



5. Putty Command Line windows, Set Omega2S/Omega2S+ to connect to PC server.

CMD: iperf -c 192.168.3.107 -i 1 -u -P 5 -b 10M -t 36000

Description: Here 192.168.3.107 is my PC wifi connection state's IP, at Step 2, i had writed it down.

And the last parameter 36000 is test time, the unit is second, here 36000 is for testing 10 Hours.

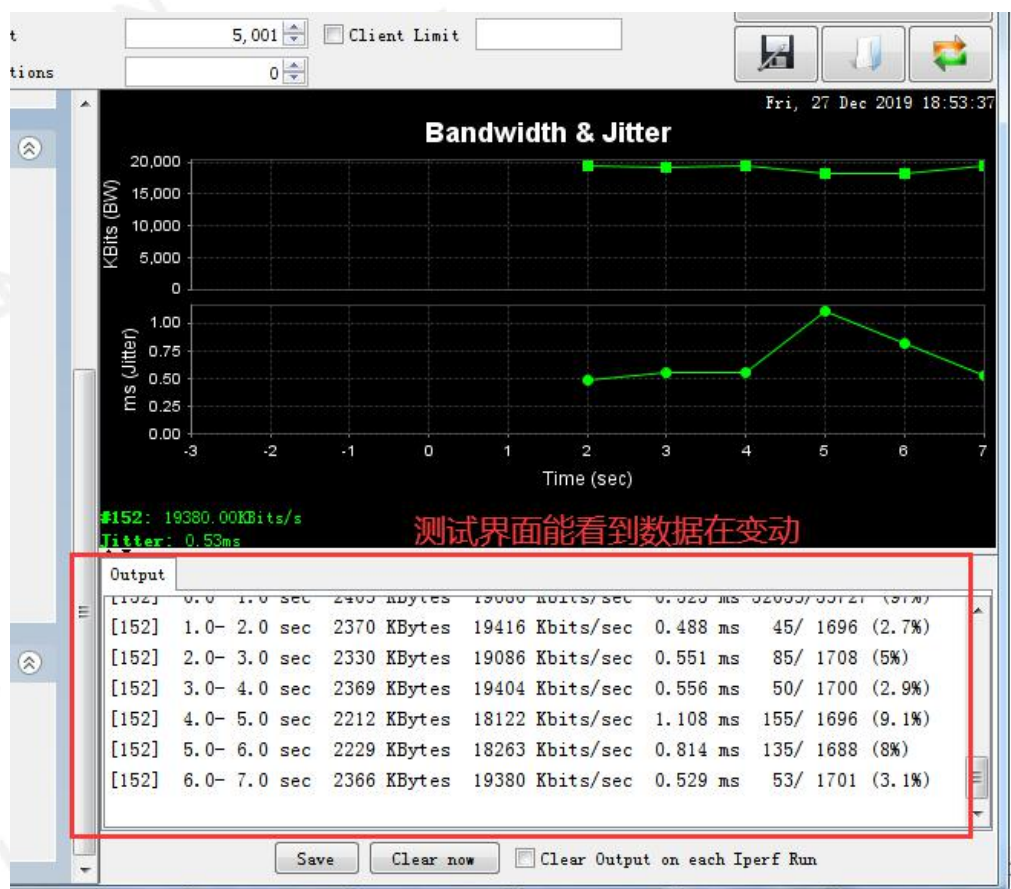
If need to stop the connecting CMD ,just set : Keyboard Ctrl + C


```

root@Omega-15B1:~#
root@Omega-15B1:~# iperf -c 192.168.3.107 -i 1 -u -P 5 -b 10M -t 36000
-----
Client connecting to 192.168.3.107, UDP port 5001
Sending 1470 byte datagrams, IPG target: 1121.52 us (kalman adjust)
UDP buffer size: 160 KByte (default)
-----
[ 3] local 192.168.3.1 port 34433 connected with 192.168.3.107 port 5001
[ 6] local 192.168.3.1 port 51970 connected with 192.168.3.107 port 5001
[ 4] local 192.168.3.1 port 39839 connected with 192.168.3.107 port 5001
[ 7] local 192.168.3.1 port 55358 connected with 192.168.3.107 port 5001
[ 5] local 192.168.3.1 port 35434 connected with 192.168.3.107 port 5001
ID Interval Transfer Bandwidth
[ 3] 0.0- 1.0 sec 698 KBytes 5.72 Mbits/sec
[ 5] 0.0- 1.0 sec 708 KBytes 5.80 Mbits/sec
[ 6] 0.0- 1.0 sec 778 KBytes 6.37 Mbits/sec
[ 7] 0.0- 1.0 sec 742 KBytes 6.08 Mbits/sec
[ 4] 0.0- 1.0 sec 752 KBytes 6.16 Mbits/sec
SUM 0.0- 1.0 sec 3.59 MBytes 30.1 Mbits/sec
[ 3] 1.0- 2.0 sec 574 KBytes 4.70 Mbits/sec
[ 6] 1.0- 2.0 sec 558 KBytes 4.57 Mbits/sec

```

After enter the CMD, and the PC side, JPerf's Test UI will change and has the test detail data.





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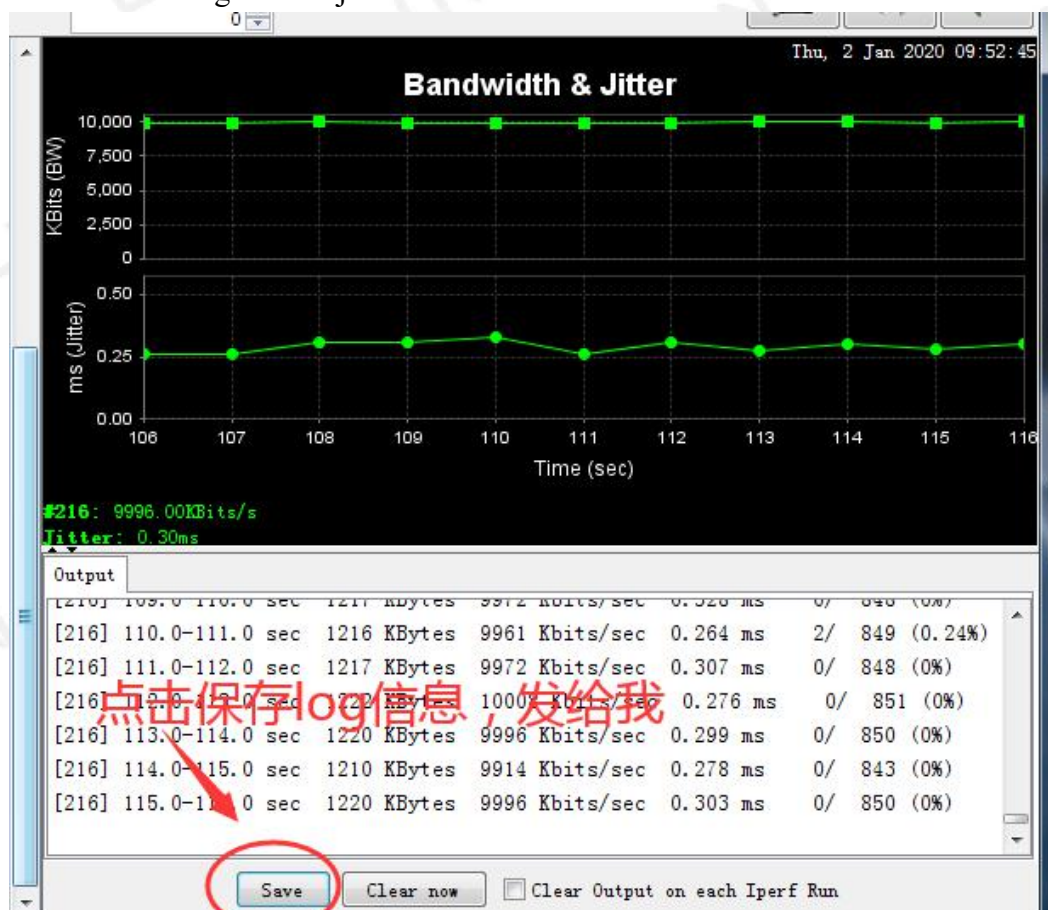
6. Test result.

If the test is ok, the JPerf test data will show at 36000s.

And if Omega2S is Crash or Restart , the JPerf test data will stop.

[276]	35986.0-35987.0	sec	1220	KBytes	9996	Kbits/sec	0.415	ms	0/	850	(0%)
[276]	35987.0-35988.0	sec	1212	KBytes	9925	Kbits/sec	0.636	ms	0/	844	(0%)
[276]	35988.0-35989.0	sec	0.00	KBytes	0.00	Kbits/sec	0.636	ms	0/	0	(-1.5%)
[276]	35989.0-35990.0	sec	131	KBytes	1070	Kbits/sec	2.860	ms	1572/	1663	(95%)
[276]	35990.0-35991.0	sec	1223	KBytes	10020	Kbits/sec	0.605	ms	37/	889	(4.2%)
[276]	35991.0-35992.0	sec	1214	KBytes	9949	Kbits/sec	0.710	ms	5/	851	(0.59%)
[276]	35992.0-35993.0	sec	1217	KBytes	9972	Kbits/sec	0.719	ms	1/	849	(0.12%)
[276]	35993.0-35994.0	sec	1210	KBytes	9914	Kbits/sec	0.334	ms	8/	851	(0.94%)
[276]	35994.0-35995.0	sec	1217	KBytes	9972	Kbits/sec	0.493	ms	3/	851	(0.35%)
[276]	35995.0-35996.0	sec	1186	KBytes	9714	Kbits/sec	0.592	ms	22/	848	(2.6%)
[276]	35996.0-35997.0	sec	68.9	KBytes	564	Kbits/sec	0.364	ms	0/	48	(0%)
[276]	35997.0-35998.0	sec	37.3	KBytes	306	Kbits/sec	2.939	ms	1620/	1646	(98%)
[276]	0.0-35998.7	sec	37117183	KBytes	8447	Kbits/sec	0.512	ms	4706606/	30562385	(15%)

After finishing the test just click "save" button to save the test data.





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End of Report

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