Restricted D&E



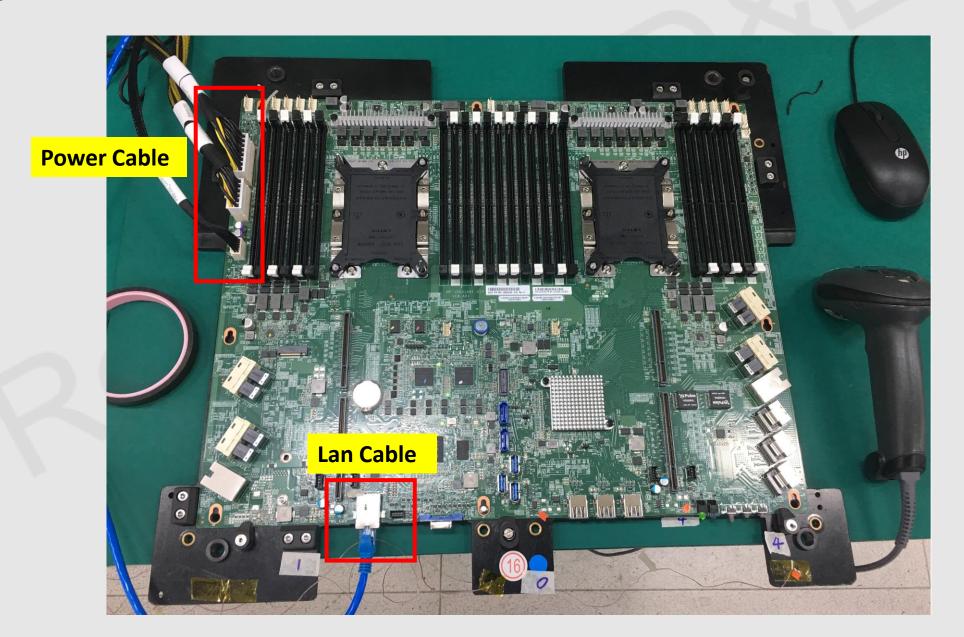
Cannonball M/B Screen Process Instruction

May. 08, 2018

HW setup:

Required equipment: (1) MB PCBA, (2) All cables from PDB to MB, (3) PDB PCBA, (4) PSU, (5) Barcode scanner

Step1: Plug in all power cables from PDB to MB and LAN cable

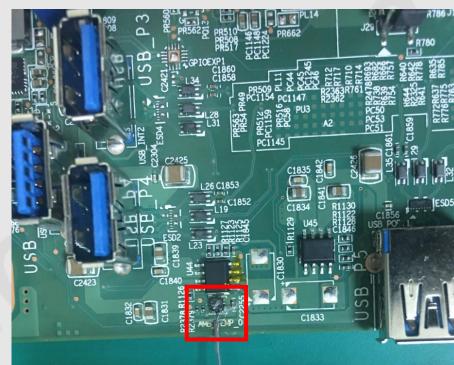




Step2: Place thermocouple close to AMB_TEMP_0 and fix it by tape.

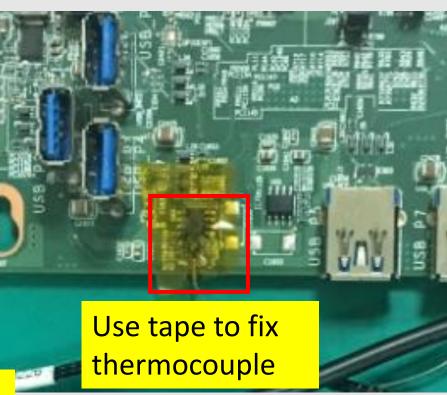


AMB_TEMP_0



Place thermocouple close to AMB_TEMP_0

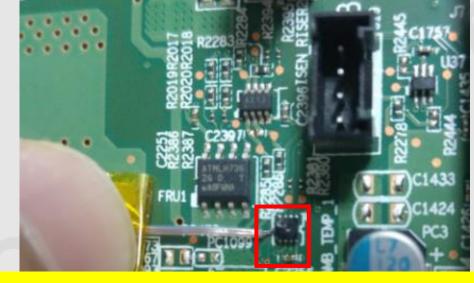






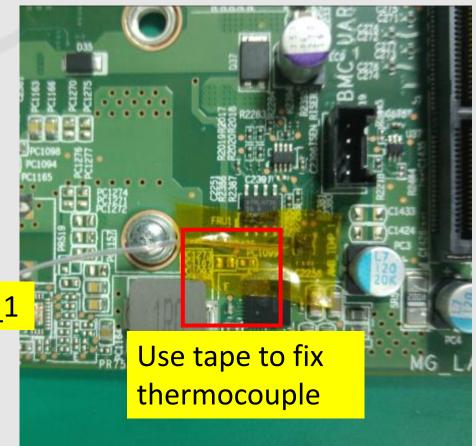
Step3: Place thermocouple close to AMB_TEMP_1 and fix it by tape.













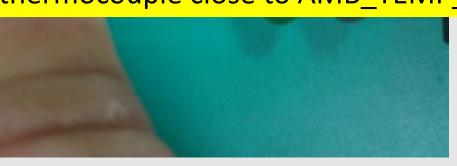
Step4: Place thermocouple close to AMB_TEMP_4 and fix it by tape.







Place thermocouple close to AMB_TEMP_4

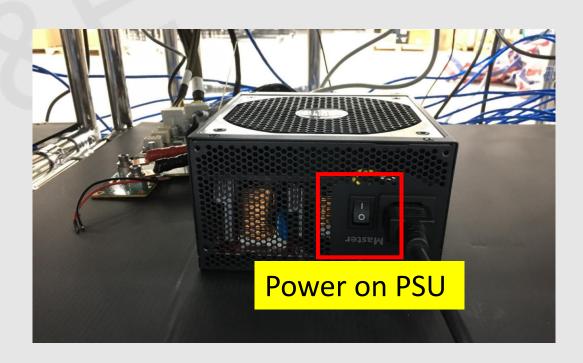






Step5: AC power on the MB

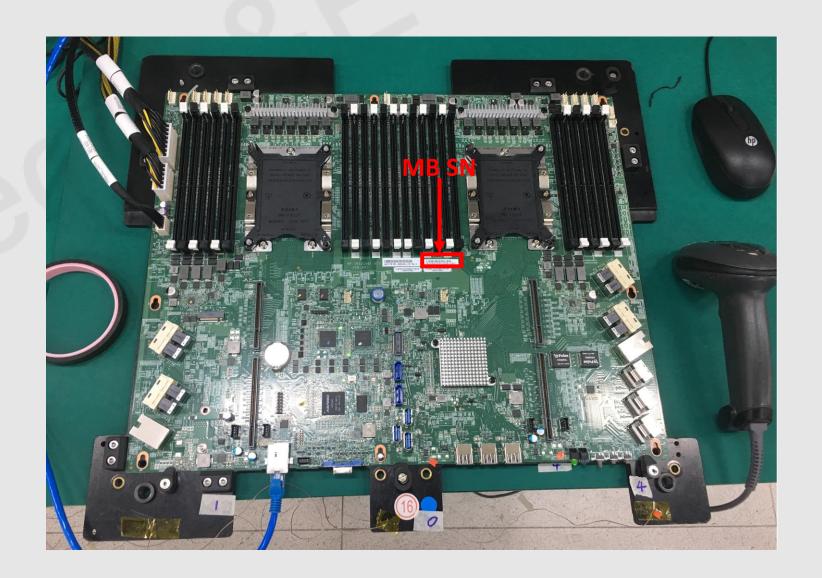






Step6: Scan MB SN Barcode when see" Please Input Serial Number"

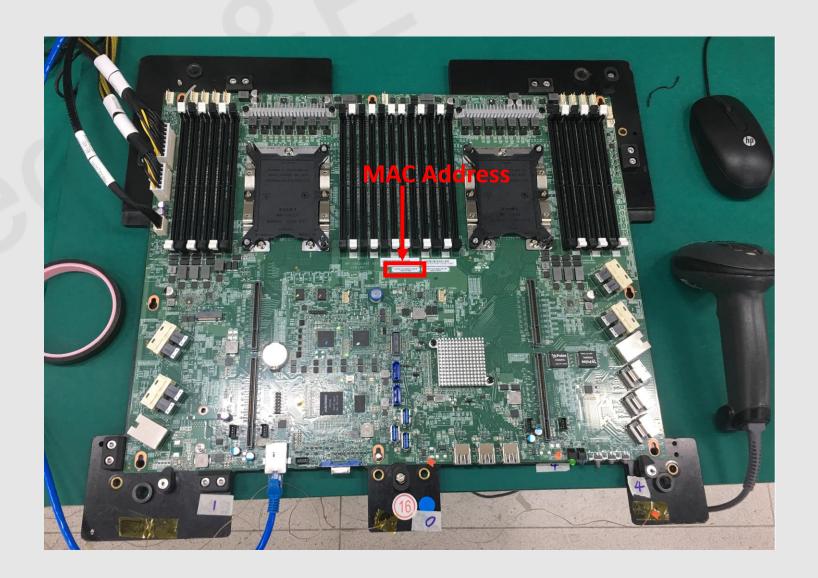
```
dmnux112 - utssrc - build
Please Input Serial Number : J181801RA
 Please Input MAC Address : J181801RA
 Please Input MAC Address : 140D4F5199E4
Do you want to start test[y/n]? : y
PING 192.168.4.3 (192.168.4.3) 56(84) bytes of data.
64 bytes from 192.168.4.3: icmp seq=1 ttl=64 time=0.216 ms
64 bytes from 192.168.4.3: icmp_seq=2 ttl=64 time=0.150 ms
 -- 192.168.4.3 ping statistics ---
 packets transmitted, 2 received, 0% packet loss, time 999ms
tt min/avg/max/mdev = 0.150/0.183/0.216/0.033 ms
Please input AMB 0 Sensor Temperature : 32.1
PASSED: SYS AMB TEMP 0 temperature [ 32.0 degrees C] is in range [ 31.1 degrees
,33.1 degrees C)
Please input AMB 1 Sensor Temperature : 32.9
PASSED: SYS AMB TEMP 1 temperature [ 33.0 degrees C] is in range [ 31.9 degrees
,33.9 degrees C]
Please input AMB 4 Sensor Temperature : 29.2
PASSED: SYS AMB TEMP 4 temperature [ 29.0 degrees C] is in range [ 28.2 degrees
,30.2 degrees C]
                            ******** *******
   -/w2/wt----/SCREEN/ETT-05/DNSS/J181801RA-20180508183028.log
Please Input Serial Number :
```





Step7: Scan MAC Address Barcode when see" Please Input MAC Address" and wait for 360 seconds.

```
Amnux112 - utssrc - build
                                                                         Please Input MAC Address : 140D4F5199E4
Do you want to start test[y/n]? : y
PING 192.168.4.3 (192.168.4.3) 56(84) bytes of data.
64 bytes from 192.168.4.3: icmp seq=1 ttl=64 time=0.216 ms
64 bytes from 192.168.4.3: icmp seq=2 ttl=64 time=0.150 ms
 -- 192.168.4.3 ping statistics ---
 packets transmitted, 2 received, 0% packet loss, time 999ms
rtt min/avg/max/mdev = 0.150/0.183/0.216/0.033 ms
Please input AMB 0 Sensor Temperature : 32.1
PASSED: SYS AMB TEMP 0 temperature [ 32.0 degrees C] is in range [ 31.1 degrees
 ,33.1 degrees C]
Please input AMB 1 Sensor Temperature : 32.9
PASSED: SYS AMB TEMP 1 temperature [ 33.0 degrees C] is in range [ 31.9 degrees
 ,33.9 degrees C]
Please input AMB 4 Sensor Temperature : 29.2
PASSED: SYS AMB TEMP 4 temperature [ 29.0 degrees C] is in range [ 28.2 degrees
 ,30.2 degrees C]
 uts/u2/utssrc/SCREEN/FTLog/PASS/J181801RA-20180508183028.log
Please Input Serial Number : J181801RA
 Please Input MAC Address : 140D4F5199E4
```



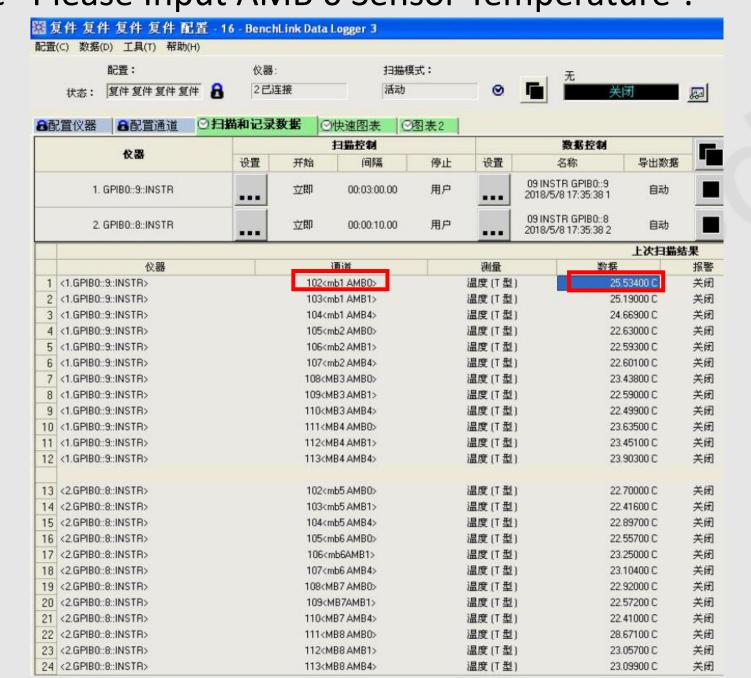


Step8: Key in "y" to continue when see "Do you want to start test[y/n]?"

```
dmnux112 - utssrc - build
                                                                      you want to start test[y/n]? : y
 ING 192.168.4.3 (192.168.4.3) 56(84) bytes of data.
64 bytes from 192.168.4.3: icmp seq=1 ttl=64 time=0.216 ms
64 bytes from 192.168.4.3; icmp seq=2 ttl=64 time=0.150 ms
 -- 192.168.4.3 ping statistics ---
 packets transmitted, 2 received, 0% packet loss, time 999ms
rtt min/avg/max/mdev = 0.150/0.183/0.216/0.033 ms
 lease input AMB 0 Sensor Temperature : 32.1
PASSED: SYS AMB TEMP 0 temperature [ 32.0 degrees C] is in range [ 31.1 degrees
C,33.1 degrees C]
Please input AMB 1 Sensor Temperature : 32.9
PASSED: SYS AMB TEMP 1 temperature [ 33.0 degrees C] is in range [ 31.9 degrees
C,33.9 degrees C]
Please input AMB 4 Sensor Temperature : 29.2
PASSED: SYS AMB TEMP 4 temperature [ 29.0 degrees C] is in range [ 28.2 degrees
C,30.2 degrees C]
                            ******** *******
 uts/u2/utssrc/SCREEN/FTLog/PASS/J181801RA-20180508183028.log
Please Input Serial Number : J181801RA
  Please Input MAC Address : 140D4F5199E4
  you want to start test[y/n]? :
```



Step9: Record the (AMBO Sensor Temperature) in Agilent Data Logger and key in the value when see "Please Input AMB 0 Sensor Temperature".



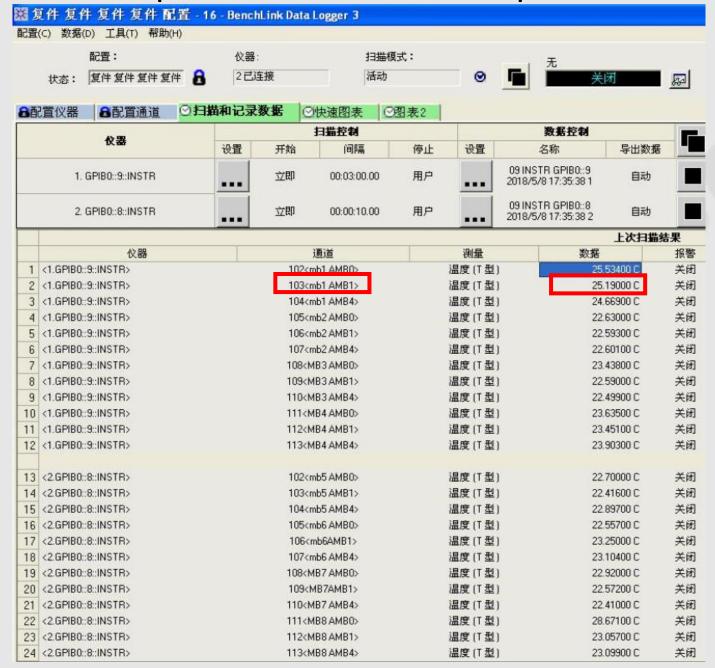
```
dmnux112 - utssrc - build
                                                                      ,33.1 degrees C]
Please input AMB 1 Sensor Temperature : 32.9
PASSED: SYS AMB TEMP 1 temperature [ 33.0 degrees C] is in range [ 31.9 degrees
,33.9 degrees C]
Please input AMB 4 Sensor Temperature : 29.2
PASSED: SYS AMB TEMP 4 temperature [ 29.0 degrees C] is in range [ 28.2 degrees
2,30.2 degrees C]
 **
               ## ##
                                      ##
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             ** **** **
                           *******
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  **
              **
                          ******** ******
uts/u2/utssrc/SCREEN/FTLog/PASS/J181801RA-20180508183028.log
Please Input Serial Number : J181801RA
 Please Input MAC Address : 140D4F5199E4
Do you want to start test[y/n]? : y
PING 192.168.4.3 (192.168.4.3) 56(84) bytes of data.
64 bytes from 192.168.4.3: icmp seq=1 ttl=64 time=0.183 ms
64 bytes from 192.168.4.3; icmp seq=2 ttl=64 time=0.248 ms
 -- 192.168.4.3 ping statistics ---
 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 0.183/0.215/0.248/0.035 ms
Please input AMB 0 Sensor Temperature : 32.4
ASSED: SIS_AND_IENT_U comperature ( 32.0 megrees C) is in range [ 31.4 degrees
,33.4 degrees C]
Please input AMB 1 Sensor Temperature :
```

Key in temperature reading value



Step10: Record the (AMB1 Sensor Temperature) in Agilent Data Logger and key in the value when

see "Please Input AMB 1 Sensor Temperature".



```
dmnux112 - utssrc - build
                                                                     ,33.1 degrees C]
Please input AMB 1 Sensor Temperature : 32.9
PASSED: SYS AMB TEMP 1 temperature [ 33.0 degrees C] is in range [ 31.9 degrees
,33.9 degrees C]
Please input AMB 4 Sensor Temperature : 29.2
PASSED: SYS AMB TEMP 4 temperature [ 29.0 degrees C] is in range [ 28.2 degrees
2,30.2 degrees C]
 ## ##
          **
               **
             ** **** **
                           *******
                                       *******
                                              **
  **
              **
                     **
                                  **
  **
                          ******** *******
uts/u2/utssrc/SCREEN/FTLog/PASS/J181801RA-20180508183028.log
Please Input Serial Number : J181801RA
 Please Input MAC Address : 140D4F5199E4
Do you want to start test[y/n]? : y
PING 192.168.4.3 (192.168.4.3) 56(84) bytes of data.
64 bytes from 192.168.4.3: icmp seq=1 ttl=64 time=0.183 ms
64 bytes from 192.168.4.3; icmp seq=2 ttl=64 time=0.248 ms
 -- 192.168.4.3 ping statistics ---
 packets transmitted, 2 received, 0% packet loss, time 1000ms
rtt min/avg/max/mdev = 0.183/0.215/0.248/0.035 ms
Please input AMB 0 Sensor Temperature : 32.4
ASSED: SYS AMB TEMP 0 temperature [ 32.0 degrees C] is in range [ 31.4 degrees
Please input AMB 1 Sensor Temperature :
```



Step11: Record the (AMB4 Sensor Temperature) in Agilent Data Logger and key in the value when

see "Please Input AMB 4 Sensor Temperature". 圖 复件 复件 复件 更件 配置 - 16 - BenchLink Data Logger 3 配置(C) 数据(D) 工具(T) 帮助(H) 配置: 扫描模式: 2 已连接 状态: 复件复件复件复件 ◎扫描和记录数据 ■配置仪器 8配置通道 ◎快速图表 ◎图表2 扫描控制 数据控制 导出数据 设置 开始 停止 设置 09 INSTR GPIB0::9 用户 1. GPIBO::9::INSTR 立即 00:03:00.00 2018/5/8 17:35:38 1 ... 09 INSTR GPIBO::8 2. GPIB0::8::INSTR 立即 00:00:10.00 自动 2018/5/8 17:35:38 2 上次扫描结果 通道 量顺 数据 报警 1 <1.GPIB0::9::INSTR> 102<mb1 AMB0> 温度(T型) 25.53400 C 关闭 25.19000 C 2 <1.GPIB0::9::INSTR> 103cmb1 AMB1> 温度(T型) 关闭 3 <1.GPIB0::9::INSTR> 104<mb1 AMB4> 温度(T型) 24.66900 C 关闭 4 <1.GPIB0::9::INSTR> 105<mb2.AMB0> 温度(T型) 22.63000 C 关闭 5 <1.GPIB0::9::INSTR> 106<mb2 AMB1> 温度(T型) 22.59300 C 关闭 6 <1.GPIB0::9::INSTR> 107<mb2 AMB4> 温度(T型) 22.60100 C 关闭 7 <1.GPIB0::9::INSTR> 108<MB3 AMB0> 温度(T型) 23.43800 C 关闭 8 <1.GPIB0::9::INSTR> 109<MB3 AMB1> 温度(T型) 22.59000 C 关闭 9 <1.GPIB0::9::INSTR> 110<MB3 AMB4> 温度(T型) 22.49900 C 关闭 10 <1.GPIB0::9::INSTR> 111<MB4 AMB0> 温度(T型) 23.63500 C 关闭 11 <1.GPIB0::9::INSTR> 112<MB4 AMB1> 温度 (T型) 23.45100 C 关闭 12 <1.GPIB0::9::INSTR> 113<MB4 AMB4> 温度(T型) 23.90300 C 关闭 13 <2.GPIB0::8::INSTR> 102<mb5 AMB0> 温度(T型) 22.70000 C 关闭 14 <2.GPIB0::8::INSTR> 103<mb5 AMB1> 温度(T型) 22.41600 C 关闭 15 <2.GPIB0::8::INSTR> 104<mb5 AMB4> 温度(T型) 22.89700 C 关闭 16 <2.GPIB0::8::INSTR> 105<mb6 AMB0> 温度(T型) 22.55700 C 关闭 17 <2.GPIB0::8::INSTR> 106<mb6AMB1> 温度(T型) 23.25000 C 关闭 18 <2.GPIB0::8::INSTR> 107<mb6 AMB4> 温度(T型) 23.10400 C 关闭 19 <2.GPIB0::8::INSTR> 108<MB7 AMB0> 温度(T型) 22.92000 C 关闭 20 <2.GPIB0::8::INSTR> 109<MB7AMB1> 温度(T型) 22.57200 C 关闭 21 <2.GPIB0::8::INSTR> 110<MB7 AMB4> 温度(T型) 22.41000 C 关闭 22 <2.GPIB0::8::INSTR> 111<MB8 AMB0> 温度 (「型) 28.67100 C 关闭 23 <2.GPIB0::8::INSTR> 112<MB8 AMB1> 温度(T型) 23.05700 C 关闭 113<MB8 AMB4> 关闭 24 <2.GPIB0::8::INSTR> 温度(T型) 23.09900 C

```
dmnux112 - utssrc - build
                                                                         ,33.9 degrees C]
Please input AMB 4 Sensor Temperature : 29.2
FASSED: SYS AMB TEMP 4 temperature [ 29.0 degrees C] is in range [ 28.2 degrees
 C,30.2 degrees C]
                            **
                                        **
                             *******
                                         *******
   **
               **
               **
                            ******** *******
 uts/u2/utssrc/SCREEN/FTLog/PASS/J181801RA-20180508183028.log
Please Input Serial Number : J181801RA
  Please Input MAC Address : 140D4F5199E4
Do you want to start test[y/n]? : y
 PING 192.168.4.3 (192.168.4.3) 56(84) bytes of data.
 54 bytes from 192.168.4.3: icmp seq=1 tt1=64 time=0.183 ms
 64 bytes from 192.168.4.3: icmp seq=2 ttl=64 time=0.248 ms
  - 192.168.4.3 ping statistics ---
 packets transmitted, 2 received, 0% packet loss, time 1000ms
 tt min/avg/max/mdev = 0.183/0.215/0.248/0.035 ms
 lease input AMB 0 Sensor Temperature : 32.4
 ASSED: SYS AMB TEMP 0 temperature [ 32.0 degrees C] is in range [ 31.4 degrees
 ,33.4 degrees C]
 lease input AMB 1 Sensor Temperature : 32.7
 ASSED: SYS AMB TEMP 1 temperature [ 33.0 degrees C] is in range [ 31.7 degrees
Please input AMB 4 Sensor Temperature :
```

Step12: The result will show "PASS" if all of 3 sensors pass. Will show "FAIL" if 1 of 3 sensors fails.

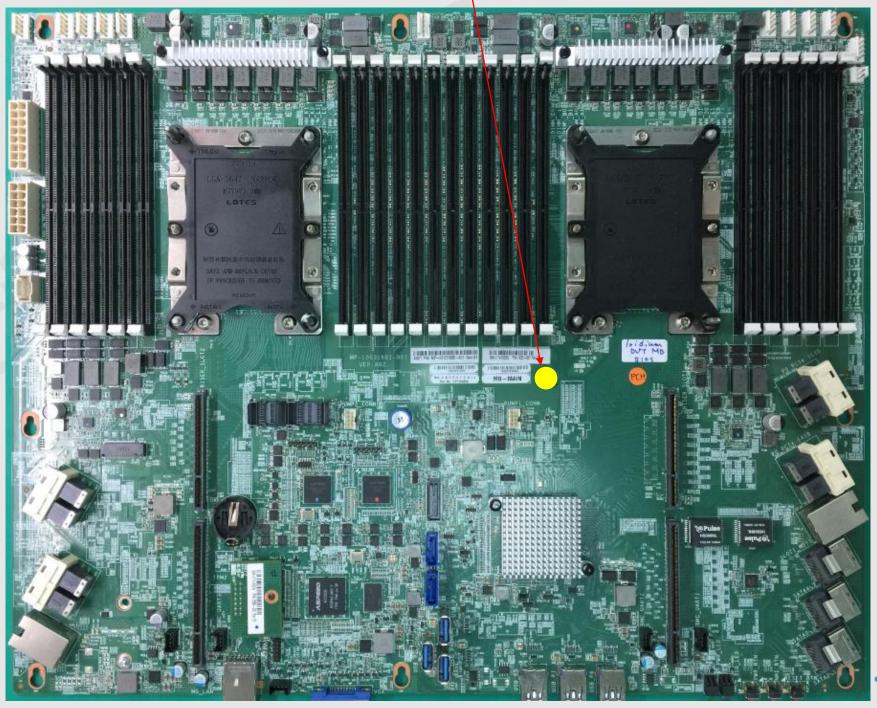
```
dmnux112 - utssrc - build
                                                                       uts/u2/utssrc/SCREEN/FTLog/FASS/J181801RA-20180508183028.log
Please Input Serial Number : J181801RA
 Please Input MAC Address : 140D4F5199E4
Do you want to start test[y/n]? : y
PING 192.168.4.3 (192.168.4.3) 56(84) bytes of data.
64 bytes from 192.168.4.3: icmp seq-1 ttl-64 time-0.183 ms
4 bytes from 192.168.4.3: icmp seq=2 ttl=64 time=0.248 ms
 -- 192.168.4.3 ping statistics ---
 packets transmitted, 2 received, 0% packet loss, time 1000ms
 tt min/avg/max/mdev = 0.183/0.215/0.248/0.035 ma
Please input AMB O Sensor Temperature : 32.4
PASSED: SYS AMB TEMP 0 temperature [ 32.0 degrees C] is in range [ 31.4 degrees
 ,33.4 degrees C]
Please input AMB 1 Sensor Temperature : 32.7
PASSED: SYS AMB TEMP 1 temperature [ 33.0 degrees C] is in range [ 31.7 degrees
 lease input AMB 4 Sensor Temperature : 29.3
ASSED: SYS AMB TEMP 4 temperature [ 29.0 degrees C] is in range [ 28.3 degrees
 30.3 degrees C]
                            ******** *******
 uts/u2/utssrc/SCREEN/FTLog/PASS/J181801RA-20180508183902.log
 lease Input Serial Number :
```



Marking After Screening

- Apply label sticker to the M/B after screening.
- For good M/B, apply "Green" color sticker.
- For bad M/B, apply "Red" color sticker + "Red arrow" sticker to the bad sensor.
 - **Green** Color Sticker
 - Red Color Sticker
 - Red Arrow Sticker

M/B sticker apply location





Equipment list: (Based on 8pcs MB per cycle)

- 1. PC or laptop X8pcs
- 2. Agilent recorder with 3 channel X1pcs
- 3. Thermocouple X 48pcs (24pcs for back up)
- 4. PDB PCBA X8pcs
- 5. PSU X8pcs
- 6. Power cable X8pcs
- 7. LAN cable X8pcs



