

BFX-AT100

May Mass production inspection

SH Son

Model Name: BFX-AT100

Document Version: ALT_STB_MP_CSMTINS_001

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Document History

Version	Editor	Date	Updates
001	SH Son (Seunghwan Son)	2020.06.02	initial version

- SKB incoming inspection
 - Inspection lot : 20k delivered on March
 - Sampling size : AQL 0.15 (1000pcs)
 - Date : 2020.04.08 ~ 2020.04.15
 - Location : [SK networks warehouse](#), Anseong, Korea.
- Overall inspection result
 - first inspection is fail
 - ALT get the conditional Pass
- Defect Total
 - No power on (Critical)
 - LED lens (Minor)
 - HDMI cable issue (Minor)

- SKB incoming inspection
 - Inspection lot : 20k delivered on May
 - Sampling size : AQL 0.15 (1000pcs)
 - Date : 2020.05.21 ~ 2020.05.25
 - Location : [SK networks warehouse](#), Anseong, Korea.
- Overall inspection result
 - ALT get the conditional Pass
- Defect Total
 - No HDMI Output (Critical)
 - Giftbox damaged (Minor)
 - Ethernet cable issue (Minor)

- SKB incoming inspection
 - Inspection lot : 30k delivered on March
 - Sampling size : AQL 0.15 (1000pcs)
 - Date : 2020.04.27 ~ 2020.05.04
 - Inspection lot : 20k delivered on May
 - Sampling size : AQL 0.15 (1000pcs)
 - Date : 2020.05.11 ~ 2020.05.14
 - Inspection lot : 30k delivered on May
 - Sampling size : AQL 0.15 (1000pcs)
 - Date : 2020.05.29 ~ 2020.06.03
 - Location : [SK networks warehouse](#), Anseong, Korea.
- Overall inspection result
 - PASS

- No power on.

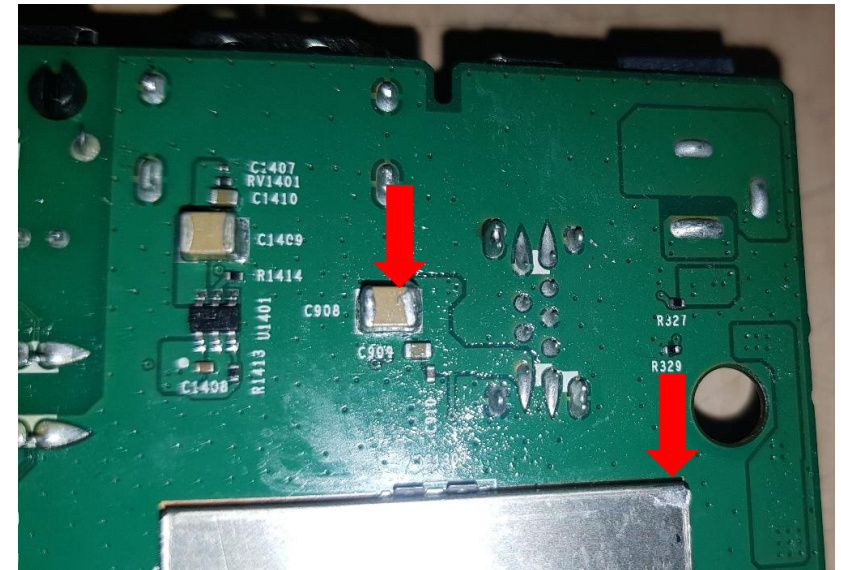
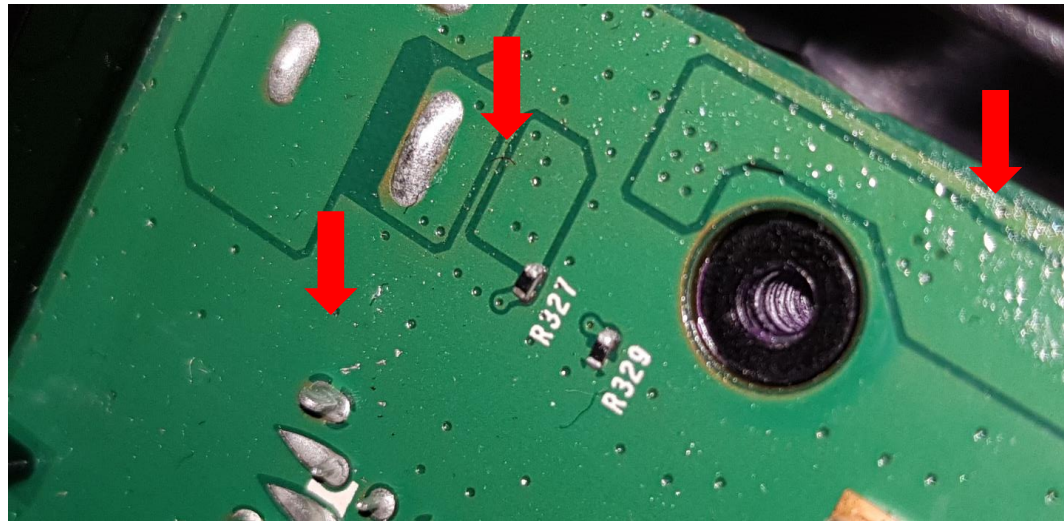
- Defect carton Q'ty : 1pcs / 500pcs
- Defect rate : 0.2%
- SN : 2149688001202001050551
- SKB quality team defined that DoA(Defective On Arrival) is critical issue on incoming inspection.
- ALT get the SKB waiver to avoid lot reject
 - ALT replace to defective PCBA : 2149688001202001050551 to 2149688001201999000011
 - > Changed the mac address as original one.
 - Additional sampling 500 units tests were conducted at ALT cost to find the same defect
 - > No additional defects founded.



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- No power on.
 - Action item
 - FXN should be submit 8D report until 26JUNE2020
 - Find the root cause and screen factory stocks – PCBA and raw material
 - Report the factory screening result
 - Report the rework STANDARD
 - Provide FXN rework standard
 - Provide factory rework history of 20k delivered on 26 March Lot. Including 2149688001202001050551.
 - ALT Comment
 - this PCBA condition is not meet IPC-610 class 2 standards.
 - According to the manufacturing specification of BFX-AT100, factory should comply the IPC-A-610 Class 2. Acceptable Condition.
 - Solder webbing. : All class of IPC-A-610 is define the defect.
 - MLCC on the bottom soldering condition : (Please refer to the next page)

No power



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- No HDMI output

- Defect carton Q'ty : 1pcs / 500pcs
- Defect rate : 0.2%
- SN :
- ALT get the SKB waiver to avoid lot reject
 - ALT swap the defective STB : 2149688001202003044082 to 2149688001201999000017
-> Changed the mac address as original one.
 - Additional sampling 500 units tests were conducted at ALT cost to find the same defect
-> No additional defects founded.

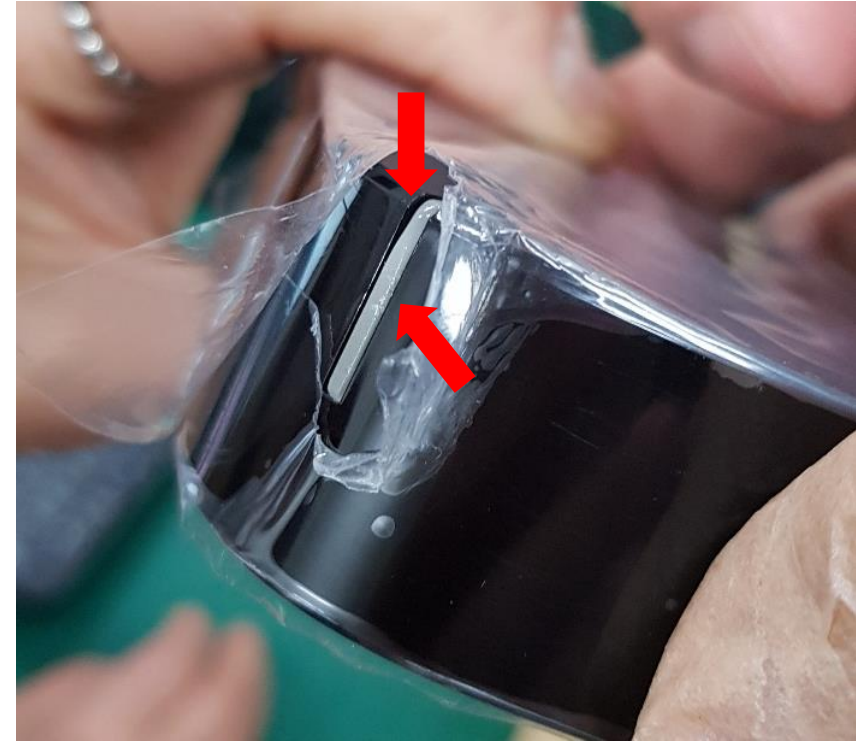
- Action item

- FXN should be submit 8D report until 26JUNE2020
 - Find the root cause.
 - The cause should be included why not detected defect in the test process in factory



- LED Lense cosmetic defect

- Defect carton Q'ty : 1pcs / 500pcs
- Defect rate : 0.2%
- SN : 2149688001202001068726
- It seems like a injection defect on LED lense

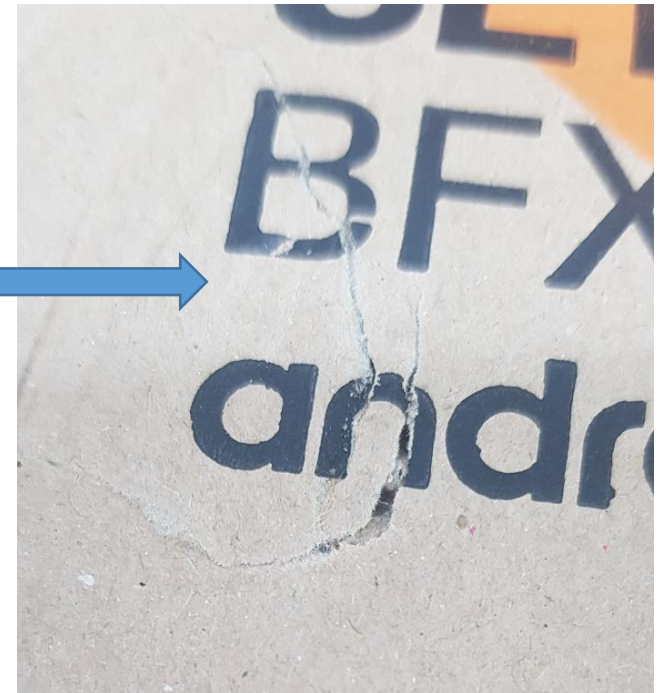


- Action item

- FXN should be submit 8D report until 26JUNE2020
 - Find the root cause.
 - Provide the preventive action

- Giftbox damaged

- Defect carton Q'ty : 1pcs / 500pcs
- Defect rate : 0.2%
 - SN : 214968800120200344157
 - The gift box top of the model name area, was torn
- Action item
 - FXN should be submit 8D report until 26JUNE2020
 - Find the root cause.
 - Provide the preventive action



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- HDMI Cable doesn't output to TV.
 - Defect carton Q'ty : 2pcs / 500pcs
 - Defect rate : 0.4%
 - Defective HDMI Cable will be return to FXN VN factory. Need to 8D report about failure analysis until 26JUNE2020
 - Same issue as 4rd and 5rd mass inspection.
- Action item
 - FXN should be submit 8D report until 26JUNE2020
 - Find the root cause.
 - Provide the preventive action

- Ethernet Cable NG

- Defect carton Q'ty : 1pcs / 500pcs
- Defect rate : 0.2%
- Defective Ethernet Cable will be return to FXN VN factory.
 - During the inspection period, it was detected as defect. But ALT retest with STB and router after inspection, was OK.
 - So, please verification of this ethernet cable at factory side.

- ALT Comment

- FXN should be provide replacement materials (HDMI cable and Ethernet cable) at least 10 units.
- So far, defective accessory has been replaced by ALT stocks. But we don't have any more.
- The inspection results possible to be negotiated in case of accessory defect that If we find a defected accessory during the inspection period, and change defected accessory to normal one.

- Poor box folding method

- The method of folding the box of inner layer is wrong in carton box unit.
- Re-training of workers is required to fold gift boxes according to SOP
- Carton S/N
 - 214CLU70180032, 214CLU70180020, 214CLU70180016...



- Note.

- It was not counted as an official defect. However, it may be counted as a defect in case of recurrence.

Thank you.

ALT
All Life Technology Co., Ltd

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