

# Eagle

## 2022.12 Mass production inspection

# SH Son

Model Name: BFX-AT100

Document Version: ALT\_STB\_MP\_CSMTINS\_001

Issued Date: 2022.12.23



**ALT**

All Life Technology Co., Ltd



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## Document History

| Version | Editor                    | Date       | Updates         |
|---------|---------------------------|------------|-----------------|
| 001     | SH Son<br>(Seunghwan Son) | 2022.12.23 | initial version |
|         |                           |            |                 |
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|         |                           |            |                 |

- SKB incoming inspection
  - Inspection lot : BFX-AT100 40k delivered on Dec 2022
    - Sampling size : AQL 0.15 (1600pcs)
    - Date : 2022.12.19 ~ 2022.12.23
  - Location : [SK networks warehouse](#), Anseong, Korea.
- Overall inspection result
  - ALT get the conditional Pass
- Defect Total
  - Critical
    - UHD(4K) Channel noise\* 1 pcs
    - MAC OUI changed \* 5360pcs
  - Major
    - Shaking noise\* 1 pcs
  - Minor
    - HDMI cable cosmetic NG\* 3 pcs

Definition\*

- Critical : The **defect related to product functions**
- Major : The defect is no effect on the product functions. But **visually defect**. (i.g cosmetic damaged.)
- Minor : The defect is no effect on the product functions, no visually defect. But **need improvement**

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- Issue grade : Critical
  - Defect unit Q'ty : 1pcs / 1600pcs
  - SN :2149688001202201458214
- Symptom
  - UHD channel and Multi view channel screen was broken or noise
  - <https://drive.google.com/file/d/1Mtr521NT-FcKbLj5TdViuBkMpriwpLSn/view?usp=sharing>
- ALT initial review
  - Check network status -> No found abnormal
  - SW reset and upgrade again -> still has defect
  - Youtube stream is also reproduced screen noise
  - ALT swap to defective STB
- Action item
  - FXN should be submit 8D report
    - For short term solution
      - First find the filtering solution at FATP line
    - The root cause.
    - Provide the preventive action
  - Please note that, consult with ALT before rework or replace BGA

# UHD(4K) Channel noise

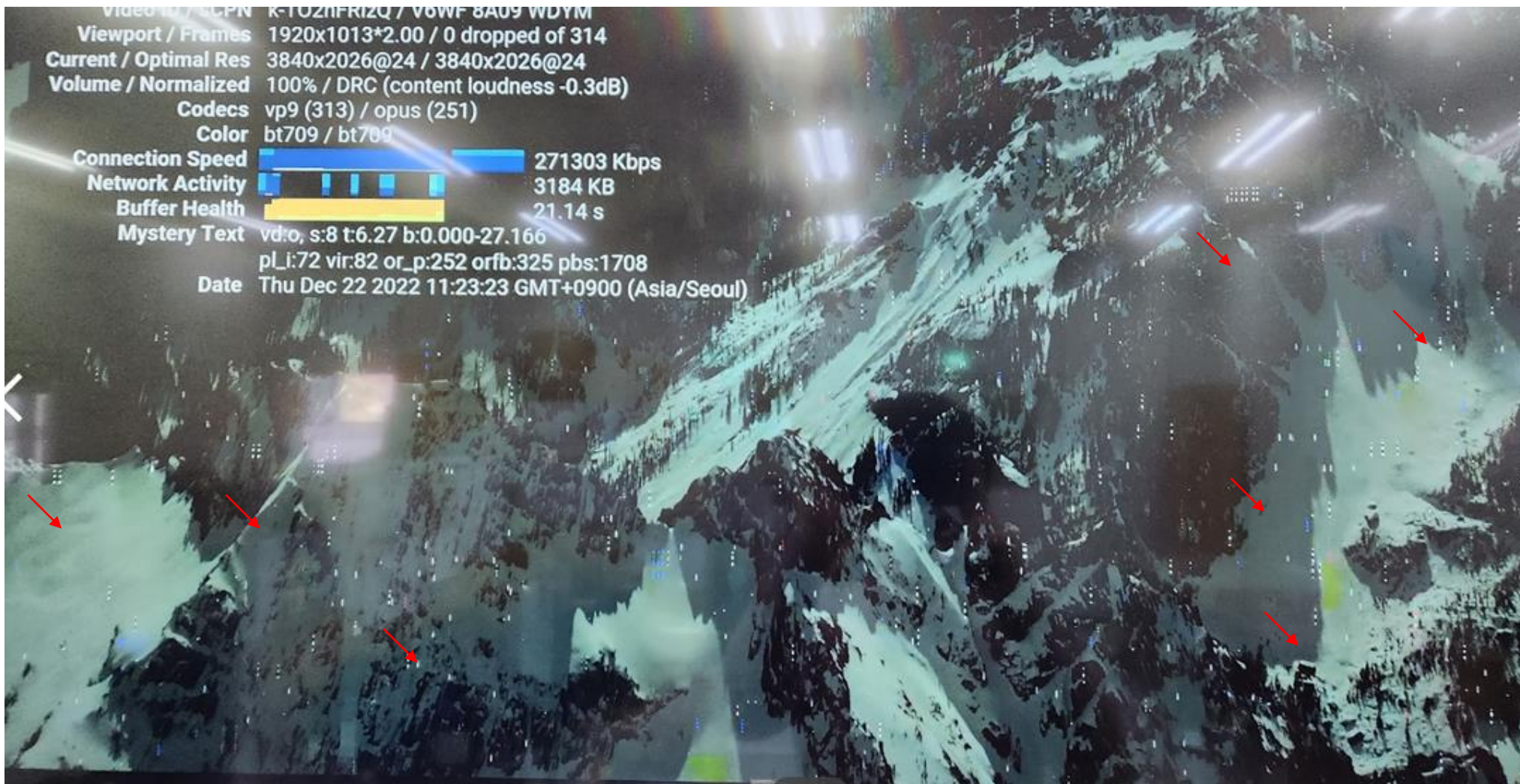


Multi view channel screen was broken or noise



UHD channel broken or noise

# UHD(4K) Channel noise



Youtube stream screen noise : Topgun trailer 4K  
<https://www.youtube.com/watch?v=k-TO2nFRl2Q>

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- MAC OUI changed without approval.
  - Issue grade : Critical
    - Defect unit Q'ty : 5360pcs / 40000pcs
  - ALT get the SKB waiver to avoid lot reject
    - FII confirm the 2022 Eagle assign only the new OUI - 38:D5:7A
    - But this Lot has another MAC OUI - BC:F4:D4
    - Only approved Mac OUIs can register the SKB system.
  - Action item
    - FXN should be submit 8D report
    - Please note that, if need to change the MAC OUI, please consult with ALT before ship out.

From: [william.wx.ruan@fii-foxconn.com](mailto:william.wx.ruan@fii-foxconn.com) <[william.wx.ruan@fii-foxconn.com](mailto:william.wx.ruan@fii-foxconn.com)>  
 Sent: Wednesday, February 23, 2022 4:00 PM  
 To: [syvoon@altech.kr](mailto:syvoon@altech.kr)  
 Cc: [carey.yh.lu@fii-foxconn.com](mailto:carey.yh.lu@fii-foxconn.com); [jwkim@altech.kr](mailto:jwkim@altech.kr); [shson@altech.kr](mailto:shson@altech.kr); [sean.hy.chiang@fii-foxconn.com](mailto:sean.hy.chiang@fii-foxconn.com); [an.qa.tran@foxconn.com](mailto:an.qa.tran@foxconn.com)  
 Subject: RE: [ALT][Eagle] OUI changes

Dear Mr. Yoon,

Our factory have assigned new OUI for Eagle from 2022, but in 2021 we have the remaining qty. So the new OUI - 38:D5:7A had been assigned from 19 - Feb 2022.

So from now in 2022 Eagle assign only the new OUI.

Kindly help check and feel free to let me know if you have any questions.

Thank you so much!

CFT PM

William\_阮文孝\_Nguyen Van Hieu

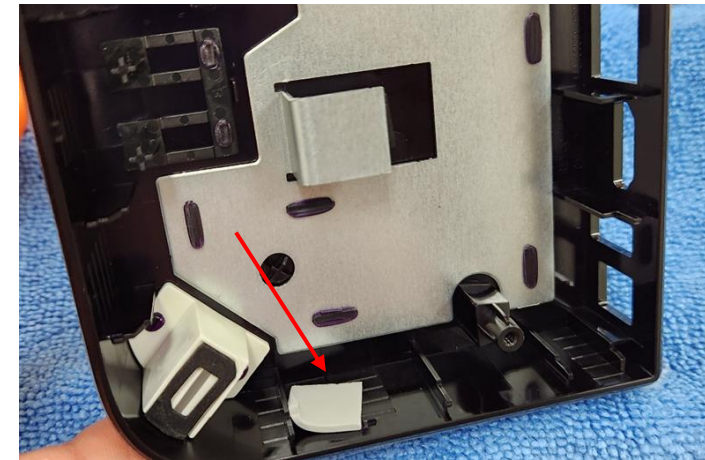
FII confirm email that the Eagle assigned only OUI

|       | A         | B              | C                      | D           | E      | F      | G            | H              | I           | J                               | K                  |
|-------|-----------|----------------|------------------------|-------------|--------|--------|--------------|----------------|-------------|---------------------------------|--------------------|
| 1     | CUSTOMER  | FXN_MODEL_NAME | CUSTOMER_SN            | FXN_SN      | MAC    |        | BLOOTOOTHMA  | CARTON_NO      | PALLET_NO   | FWVER                           | MANUFACTURING_DATE |
| 10011 | BFX-AT100 | T99X171.00     | 2149688001202201469694 | SKBFXYS0B30 | BCF4D4 | F6ECCD | BCF4D4FB80AD | 214CY102482470 | PY102490001 | 15.534.28-20220818 release-keys | 2022-12-04         |
| 10091 | BFX-AT100 | T99X171.00     | 2149688001202201469650 | SKBFXYS0LAK | BCF4D4 | F6ECFE | BCF4D4FB80DE | 214CY102482465 | PY102490001 | 15.534.28-20220818 release-keys | 2022-12-04         |
| 10137 | BFX-AT100 | T99X171.00     | 2149688001202201469828 | SKBFXYS0LUX | BCF4D4 | F6EB6F | BCF4D4FB7F4F | 214CY102482483 | PY102490001 | 15.534.28-20220818 release-keys | 2022-12-04         |
| 10138 | BFX-AT100 | T99X171.00     | 2149688001202201469887 | SKBFXYS0AV2 | BCF4D4 | F6EC83 | BCF4D4FB8063 | 214CY102482489 | PY102490001 | 15.534.28-20220818 release-keys | 2022-12-04         |
| 10141 | BFX-AT100 | T99X171.00     | 2149688001202201469745 | SKBFXYS0JZ7 | BCF4D4 | F6EBBC | BCF4D4FB7F9C | 214CY102482475 | PY102490001 | 15.534.28-20220818 release-keys | 2022-12-04         |
| 10184 | BFX-AT100 | T99X171.00     | 2149688001202201469862 | SKBFXYS0LS1 | BCF4D4 | F6ECD9 | BCF4D4FB80B9 | 214CY102482487 | PY102490001 | 15.534.28-20220818 release-keys | 2022-12-04         |
| 10253 | BFX-AT100 | T99X171.00     | 2149688001202201469845 | SKBFXYS0174 | BCF4D4 | F6EC09 | BCF4D4FB7FE9 | 214CY102482485 | PY102490001 | 15.534.28-20220818 release-keys | 2022-12-04         |

2022.12 40K shipping file that changed OUI : 5360pcs

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- Issue grade : Major
  - Defect carton Q'ty : 1pcs / 1600pcs
  - SN : 2149688001202201444939
- Symptom
  - Shaking the product makes noise
  - <https://drive.google.com/file/d/1PainSPbfJ0vBBTgDBf-MMBxRtaZnHCl0/view?usp=sharing>
- ALT initial review
  - Checked exterior cosmetic : No found abnormal
  - Disassemble STB : Found abnormal
    - The thermal pad was detached
    - ALT was assembled again.
- Action item
  - FXN should be submit 8D report
    - Find the root cause : Add a detection process
    - Provide the preventive action



- grade : Minor
  - Defect unit Q'ty : 3pcs / 1600pcs
- The HDMI cable cosmetic NG



- Action item
  - FXN should be submit 8D report
    - Find the root cause.
    - Need to vender report
    - Provide the preventive action. Below agenda should be included.
      - Vender quality control plan
      - IQC control plan
      - OQC control plan

- HDMI cable sorting mark
  - Customer was waived only one time for cosmetic issue
  - If needed marking to the screening results, Please discuss with ALT first.



# Thank you.

**ALT**  
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