

# SWAN

## 2022.06 Mass production inspection

### SH Son

Model Name: BFX-UA300

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

Issued Date: 2022.07.06



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## Document History

| Version | Editor                    | Date       | Updates             |
|---------|---------------------------|------------|---------------------|
| 001     | SH Son<br>(Seunghwan Son) | 2022.07.06 | initial version     |
| 002     | SH Son<br>(Seunghwan Son) | 2022.07.07 | Update the PCBA S/N |
|         |                           |            |                     |
|         |                           |            |                     |
|         |                           |            |                     |
|         |                           |            |                     |
|         |                           |            |                     |
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|         |                           |            |                     |

- SKB incoming inspection
  - Inspection lot : BFX-UA300 MP delivered on 2022.06
    - Date : 2022.6.28 ~
    - Not finished, So far inspected 1088pcs result.
  - Location : [SK networks warehouse](#), Anseong, Korea.
- Overall inspection result
  - Failed.
    - Cancel Sampling Inspection
    - Apply full (4000pcs) inspection
  - This inspection result is impacted ALT quality level.
    - Biz part will discuss biz impact with Foxconn biz team.
- Defect Total
  - Critical
    - No boot 2pcs
    - No Ethernet 1pcs
    - Ethernet unstable 1pcs
  - Major
    - HDMI cable defect 5 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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- No boot
  - Issue grade : Critical
  - Symptom : booting fail
    - Defect unit Q'ty : 2pcs / 1088 pcs
    - SN : 2149695001202201009341
      - PCBA S/N YX019HJ
- ALT initial review
  - Visual check : No found abnormal
  - Console log Check : abnormal log message, Image load fail
- ALT Action
  - Replace the Main PCBA
- Factory Action item
  - FXN should be submit 8D report
    - Need to find out why it wasn't detected in factory tests
    - Provide the preventive action

```
Boot Log
  init cpupll 800MHz
init mempll 2400MHz
init 3GB DDR, lib version r63074
hw_init done
custom table done
asking BCM to load miniloader.
init syspll 800MHz
RKEKt_lsmD: (rbyeltee[as0:e 7i])d 0= xd59cac190200070, 00c0om05m3i2t7 t
0mULeT W (ebd ytAepr[0 :274] 1) 3 :1 7 :5= 54 b2021c89 5-9a07d0910
20ec
Chip version      = 0xa0
Check bootmode = 0x1 !
load_module image tzk_recovery verify failed.
read recovery tz kernel image failed. switch to recovery image.
load_module image tzk_normal verify failed.
read normal tz kernel image failed, try backup image.
read normal backup tz kernel image failed. spinning now.
  init cpupll 800MHz
init mempll 2400MHz
init 3GB DDR, lib version r63074
```

- No boot
  - Issue grade : Critical
  - Symptom : booting fail
    - Defect unit Q'ty : 2pcs / 1088 pcs
    - SN : 2149695001202201011465
      - PCBA S/N : YX10102
- ALT initial review
  - Visual check : No found abnormal
  - Console log Check : abnormal log message, Image load fail
- ALT Action
  - Replace the STB
- Factory Action item
  - FXN should be submit 8D report
    - Need to find out why it wasn't detected in factory tests
    - Provide the preventive action

```
Boot Log
load boot normal image.
BOOT IMAGE HEADER VERSION: 2 !

verify slot done
TAMgr_CreateInstance:tz comm rsp done! 80000000, 0, 7
invoke command 0x00000000
TASysCmd_OpenSession:tz comm rsp done! 80000000, 0, 7000200
DRM_SetVersionsV4: Bootpatchlevel: 0x30188
DRM_SetVersionsV4: Vendorpatchlevel: 0x30188
DRM_SetVersionsV4: Systempatchlevel: 0x30188
INFO: set eMMC dll_phsel0 to 0x2a for kernel.
size of allocated memory is not correct!
can't find the allocated memory
[ 0] Start kernel at 0x05880000
```

- No Ethernet
  - Issue grade : Critical
  - Symptom : Ethernet doesn't work.
    - Defect unit Q'ty : 1pcs / 1088 pcs
    - SN : 2149695001202201009369
      - PCBA S/N : YX01A7N
- ALT initial review
  - Visual check : No found abnormal
  - Booting is OK.
  - Can't received IP address. Data led on the ethernet connector is not turn on.
- ALT Action
  - Replace the STB
- Factory Action item
  - FXN should be submit 8D report
    - Need to find out why it wasn't detected in factory tests
    - Provide the preventive action

- Ethernet unstable
  - Issue grade : Critical
  - Symptom : Ethernet speed too low, and unstable
    - Defect unit Q'ty : 1pcs / 1088 pcs
    - SN : 2149695001202201008099
      - YWPOTEX
- ALT initial review
  - Visual check : No found abnormal
  - Ethernet link up is OK, but more than 50% packet loss occurred
  - Can't watch live broadcast normally. Youtube play is also.
- ALT Action
  - Replace the STB
- Factory Action item
  - FXN should be submit 8D report
    - Need to find out why it wasn't detected in factory tests
    - Provide the preventive action

- HDMI cable defect
  - Issue grade : Major
  - Symptom : No screen
    - Defect unit Q'ty : 5 / 1088pcs
- ALT initial review
  - Function check : No screen on the TV (LG/Samsung)
  - Visual check : No found abnormal
- ALT Action
  - Replace new cable
- Action item
  - FXN should be submit 8D report
    - Request the enhanced the IQC at factory.
    - Provide the preventive action

# Thank you.

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