



ALT meeting-Eagle Project

Feb. 11th 2020

2/11~2/12 schedule

Date	Time	Topic
2/11	15:30~18:30	Eagle project discussion
	19:00~21:00	Dinner meeting
2/12	08:30~09:00	Pick up for ALT from hotel to Fii
	09:00~12:00	SWAN project discussion
	12:00~14:00	Lunch break
	14:00~17:00	5G products and new projects

Eagle Project Discussion Agenda

- Action items from ABR
- Production line improvement
- Production plan
- EC requests
- HW Status
- SW Status
- Price reduction record

Foxconn Industrial Internet
富士康工业互联网

Action items from ABR- Demand

- Formal confirmation for 580K forecast of 2020 for Fii to conduct a more complete risk buy to reduce shortage risk. (E&O responsibility)

2020 Forecast

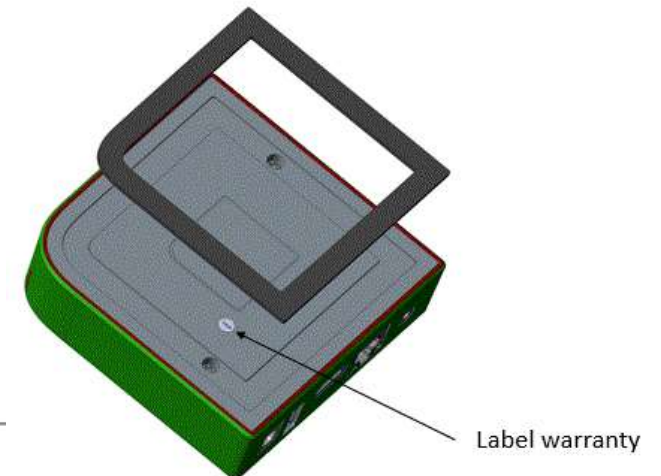
Model	1Q			2Q			3Q			4Q			Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
ATV/AOSP	30,000	20,000	60,000	60,000	60,000	70,000	170,000			110,000			580,000

- Fii did risk buy for 57 items to satisfy 60K to 110K FGs demand (USD\$350,000), starting from Nov. 2019, but will use up in April.
- => Need to confirm the demand after May
- What is plan for Eagle in 2021? Will there be a 2nd generation?

Item	Total	Item	Total
IC MPU 3.3V SMD FCBGA49 2.	120000	CAP CER 6.8pF +-0.1pF 25V	360000
IC DDR4 SDRAM 8Gb 1.2/2.5V	240000	CAP CER 3pF +-0.25pF 25V S	90000
IC eMMC 8GB 2.7~3.6V 5nS S	60000	CAP CER 9pF +-0.5pF 25V SM	90000
IC DDR4 SDRAM 4Gb 1.2V 0.3	240000	CAP CER 1uF 20% 6.3V SMD 0	1800000
NFET 20V 230mA SMD SOT-523	110000	CAP CER 2pF +-0.05pF 25V S	180000
IC DC-DC 2.5~5.5V SMD SOT5	440000	CAP CER 1uF 10% 6.3V SMD 0	810000
CAP CER 18pF 1% 50V SMD 04	220000	CAP CER 100uF 20% 10V SMD	180000
IR RECEIVER 38KHz SMD SMD4	110000	CAP CER 22uF 20% 10V SMD 0	360000
IC DSP 3.6V SMD QFN24 GP T	110000	CAP CER 1uF 10% 25V SMD 04	810000
DIODE ESD PROTECTION 9V 3.	110000	IND C 1.5nH 0.1nH 600mA 0.	90000
DIODE EMI 5V 7A SMD WLCSP1	220000	IND TF 3.9nH 0.1nH 400mA 0	90000
IC REG 1.8V 500mA SMD SOT2	220000	BEAD C 120ohm 25% 500mA 0.	90000
IC REG 2.5V 500mA SMD SOT2	110000	CAP CER 4.7uF 10% 10V SMD	990000
IC SW 2.5~6.5V SMD WSON6 G	110000	CAP CER 10uF 20% 6.3V SMD	990000
DIODE ESD PROTECTION 6V 0.	110000	CHOKE 90ohm 28% 400mA 0.19	90000
DIODE TVS 3.3V 3A SMD SLP0	110000	CAP CER 10nF 10% 6.3V SMD	270000
TR NPN 40V 150mA SMD SOT23	330000	CAP CER 1nF 10% 16V SMD 02	720000
IC PER 1.5/1.8/2.5/3.3V SM	60000	CAP CER 18pF 5% 25V SMD 02	180000
IC SW 2.7~5.5V SMD SOT23-6	120000	CAP CER 10pF 5% 50V SMD 02	180000
IC ANALOG 2.93V SMD SOT23-	60000	CAP CER 100nF 10% 16V SMD	180000
CAP CER 100nF 10% 10V SMD	1440000	CAP CER 1nF 10% 16V SMD 04	360000
CAP CER 8.2pF +-0.5pF 50V	180000	CAP CER 330pF 5% 50V SMD 0	90000
CAP CER 12pF 5% 25V SMD 02	180000	CAP CER 1uF 10% 10V SMD 04	270000
CAP CER 10nF 10% 10V SMD 0	90000	CAP CER 22uF 20% 6.3V SMD	450000
CAP CER 2.2uF 20% 10V SMD	180000	CAP CER 10uF 20% 10V SMD 0	90000
BEAD C 120ohm 25% 2.5A 0.0	360000	CAP CER 1nF 10% 2KV SMD 12	270000
CAP CER 100nF 10% 6.3V SMD	5400000	LED CHIP 28.5/112/14.5mcd	40000
CAP CER 100pF 5% 25V SMD 0	180000		
CAP CER 1.5pF +-0.1pF 25V	90000		

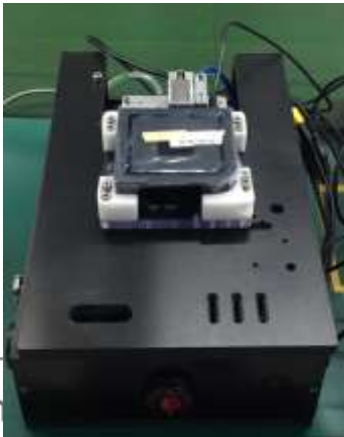
Action items from ABR- RMA

- ALT RMA Packing is suggested to be provided to Fii for the evaluation of protection over returned goods.
 - Fii already provided the packing design in Dec. 2019.
- Confirm the inspection standard and initiate the return process
 - Need to inform factory PM Mary beforehand
- Warranty label proposal provided in Dec. 2019 and will introduce in April shipment to avoid root cause misjudgment.



Production line improvement update

- Introduction of automation: screw locking on housing
 - To avoid the scratches caused by unskillful operators or unintended acts
 - To stabilize the output of screw locking station
- Ethernet connector LED light auto detection
 - Inspection report provided in Dec. 2019 identified the phenomenon
 - To avoid the visual inspection tiredness of operators



Fixture at FT station



Auto test Eth led program

Production plan

- Gating items
 - ADP (ALT Buy & Sell), IR receiver, XTAL, housing, CAP CER 1uF, cable RJ45, clip
- The pulled-in Mar. demand of 60K in Feb. will be affected due to severe coronavirus impact on China supply chain.
 - Chinese vendors received governmental announcement for the delay of return to 2/10 and might change.
 - Cargoes via vessel from China to Vietnam will need to go through inspection within 14 days. And those by truck will be prohibited from entry. => Plz check ADP ETA
- The production is estimated to resume on 2/21, and Fii will closely monitor the updates from Chinese vendors and update to ALT if any change.

EC requests

- Device label adds a Google legal line
 - Target: April 60K demand.
 - Progress: Complete internal review by 2/14 and deliver samples to ALT by end of Feb.
- ADP 2nd source
 - Target: Register P/N in mid March
 - Progress: Verification conducted by ALT and power consumption report will be provided to Fii before 2/14. Fii is reviewing new vendor information.
- Distinguish AOSP from label and rubber foot
 - Progress: Complete the cost and schedule evaluation by 2/14



HW issues

1. Eagle ROHS verification report

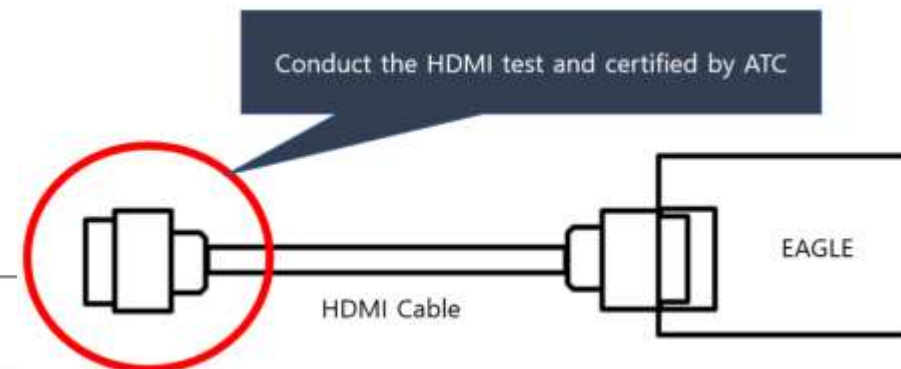
- The following table shows the RoHS status for Eagle project.
- FXN is requesting RoHS doc. from vendors that are missing GP/RoHS doc. in system and estimated to complete on end of Feb.
- FXN will provide self-declaration report to SKB/ALT reference

Owner Required	QS (EE part)	Layout	RD (ME)	Remark
Total(RoHS10)	323	1	54	
Completed	297	0	19	* Meet RoHS10
Ongoing	26	1	35	* No GP data * Meet RoHS6 but need to update to RoHS10
Completed Rate (%)	92.0%	0.0%	35.2%	
1/21 complete RoHS10	1	0	1	

Hazardous Substances	Maximum allowable value (mg/kg) = ppm
Cd	100
Pb	1000
Hg	1000
Cr+6	1000
PBBs	1000
PBDEs	1000
Phthalate 4 (DEHP/BBP/DBP/DIBP)	1000

2. There is a few HDMI compatibility issue appears in field. SKB manager requests to do another HDMI certification. The block diagram shown as below

- FXN ask ALT SB to provide the compatibility issues in more detail.
- ➔ There are many RMA samples that the symptoms is just described "Display fail". ALT SB checked these samples but most of them are normal.
- FXN would like to clarify if it's TV compatibility? It would be better to duplicate the issues first. And find the root cause and then to be able to fix the issues.



SW Status

- **ATV Certification Status (BFX-AT100, v15.513.10)**

- **FII Internal xTS pre-test**
 - xTS pre-test is done on 2/4
- **3PL Verification**
 - 3PL finish verification on 2/10
- **Google Approval**
 - Expected to get approval later today

- **AOSP SW Status (BFX-UH200 with UI5.1.3)**

- **Current SW version is v17.513.3**
 - FW is released on 1/30
 - AOSP BMT schedule
 - SKB QA: 2/3 ~ 2/21
 - SKB BMT: 2/24 ~ 4/3

Price reduction record

0~300K	301K~410K	411K~800K
\$67.48(51.7)	\$65.98(50.2)	\$63.98(48.2)

	2019	2020											
		Q1			Q2			Q3			Q4		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct.	Nov	Dec
demand	300K	30K	20K	60K	60K	60K	70K	170K			30K	80K	
price	\$51.7	\$50.2(110K)			\$48.2 (total 390K)								

