ECO	REV.	DESCRIPTION	BY	DATE
14559	00	32781 Waste from Electrical and Electronic Equipment (WEEE) -Sokkia	JB	January 27, 2025

WEEE Recycling Passport

JUNIPER SYSTEMS, INC.—SHC700 ULTRA-RUGGED TABLET

TITLE: FC-700 WEEE Passport	REVISION DATE: Jan. 21, 25	JUNIPER SYSTEMS
PART NUMBER: 32781	REVISION: 00	1132 West 1700 North Logan, Utah 84321 435-753-1881
COLOR CODE: N/A	Juniper Systems Internal Use Only PACKAGE NUMBER WHERE USED: XXXXX	RoHS COMPLIANCY REQUIRED The use of heavy metals and heavy metal compounds of lead (Pb), cadmium (Cd), mercury (Hg), hexavalent chromium (Cr VI) and flame retardant systems based on polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE), including penta bromodiphenyl ethers, deca bromodiphenly ethers (DBDE) and octa bromodipehenyl ethers is not allowed in the materials or processing of this part. Trace levels of heavy metals may be present as impurities, within threshold limits. (<0.1% for Pb, Hg, Cr VI, PBB & PBDE and <0.01% for Cd)

Result of Reuse/Recycling/Recovery Assessment

1. Appearance of the product

Front View

Back View

2. Selective Treatment for Materials and Components

According to Article 8(2) and the annex VII of the WEEE Directive, this product contains components and material items are described in the following table.

Component/Material	Photo No.	Size & Quantity	Weight (g)
PCB	B7	4.69 x 1.12 cm	1.729
PCB	B8	4.68 x 0.62 cm	1.1358
PCB	C8	3.42 x 2.62 cm	3.2932
PCB	C9	2.22 x 1.14 cm	5.237
PCB	C10	3.42 x 2.63 cm	1.8498
PCB	C11	2.39 x 2.39 cm	6.0167
PCB	D7	3.92 x 3.44 cm	28.086
PCB	F4	6.39 x 1.26 cm	0.1899
PCB	F6	4.32 x 1.73 cm	0.4181
PCB	F9	3.73 x 1.45 cm	1.4177
PCB	G2	2.55 x 1.03 cm	0.4112
PCB	G3	3.01 x 2.96 cm	0.8781
PCB	G6	10.65 x 0.96 cm	0.8725
PCB	G7	9.97 x 0.68 cm	0.2991
PCB	G8	10.76 x 4.75 cm	1.4099
PCB	G14	4.18 x 4.45 cm	0.5016
PCB	G16	8.63 x 7.33 cm	30.0619
Battery	B9	8.34 x 5.14 cm	62.7053
Battery	B10	8.34 x 5.14 cm	118.4201
Battery	G13	4.65 x 4.54 cm	6.7085

3. Disassembly Tree

A

A1

A2

A3

A4

A5

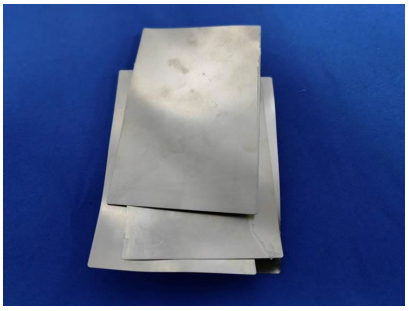
A6

A7

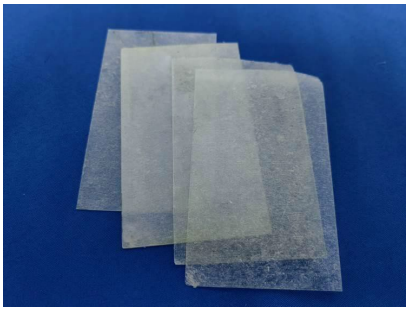
A8

B

B1



B2

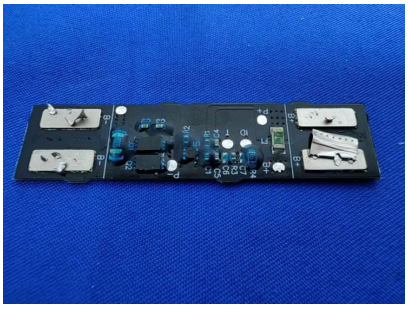


B3

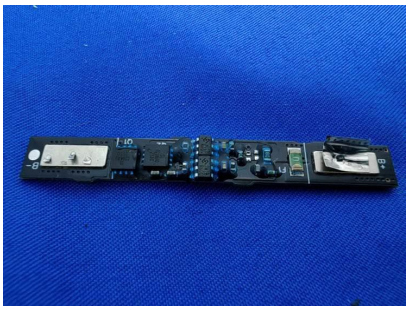
B4

B5

B6



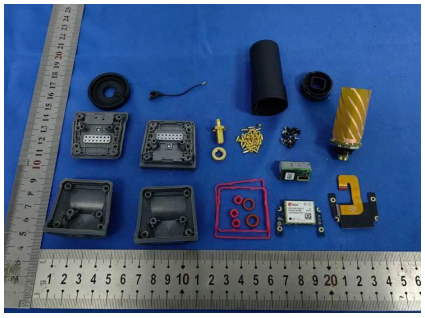
B7



B8

B9

B10



C

C1

C2

C3

C4

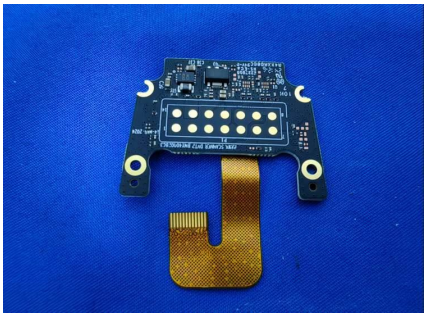
C5

C6

C7

C8

C9



C10

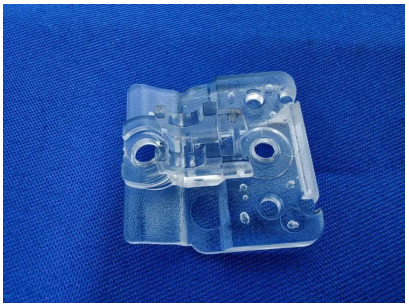
C11

D

D1

D2

D3



D4

D5

D6

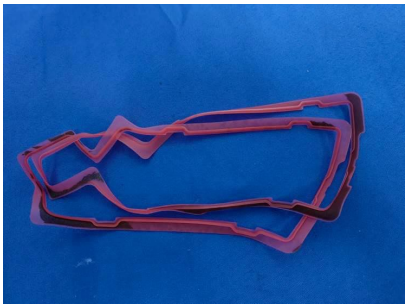
D7

E

E1

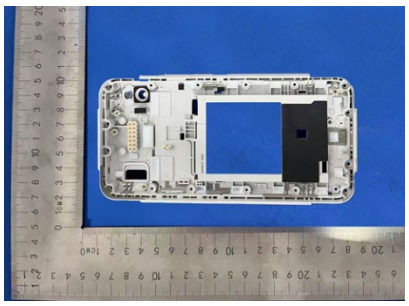
E2

E3

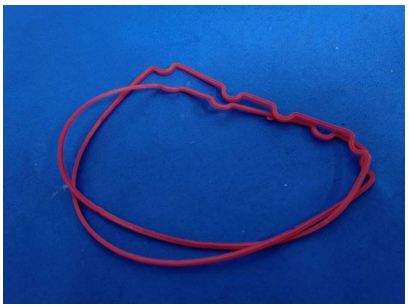


E4

F



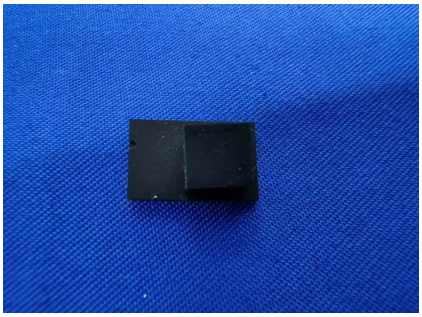
F1



F2

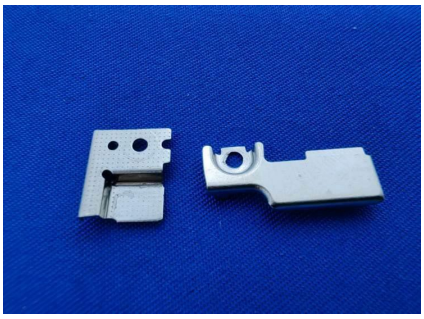
F3

F4

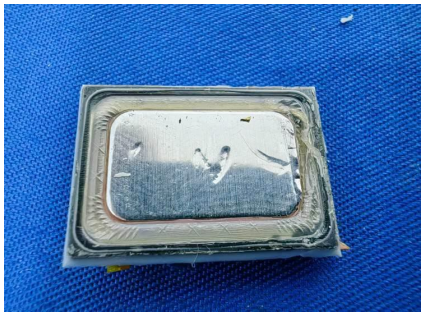


F5

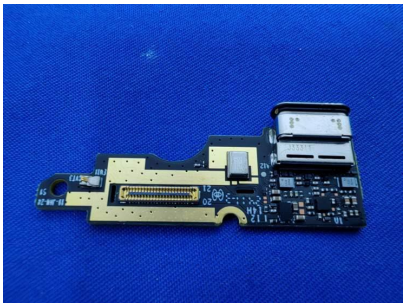
F6



F7



F8

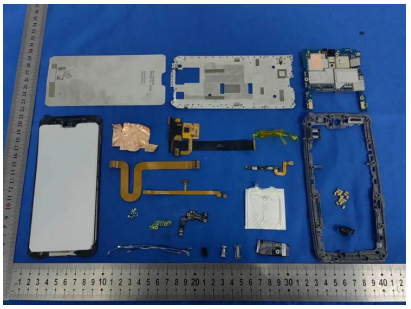


F9

F10

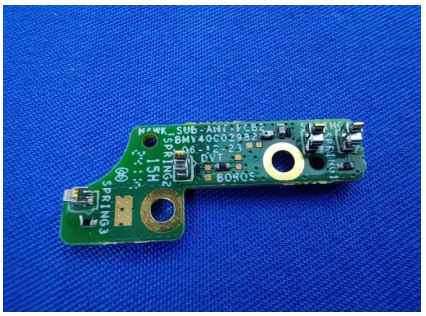
F11

F12

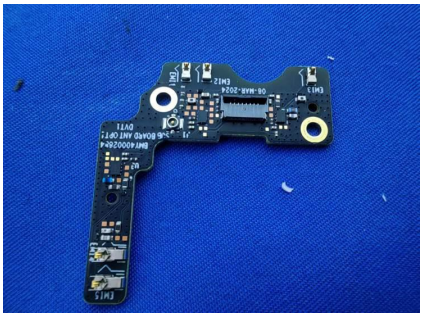


G

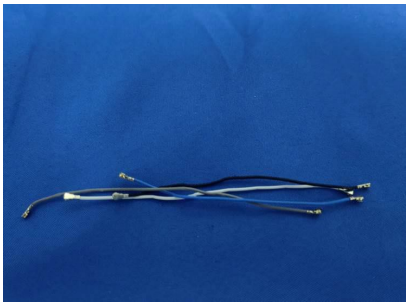
G1



G2



G3

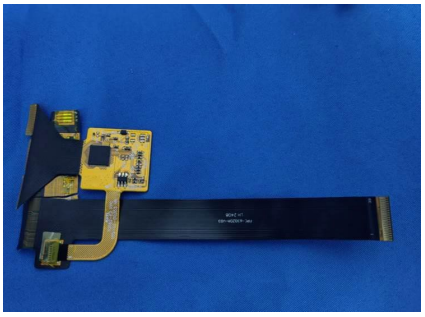


G4

G5

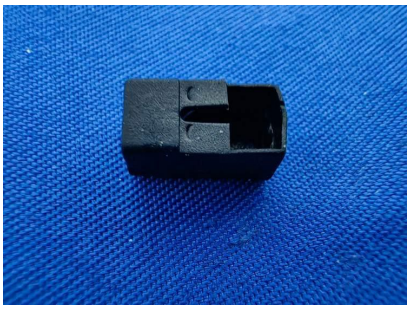
G6

G7



G8

G9

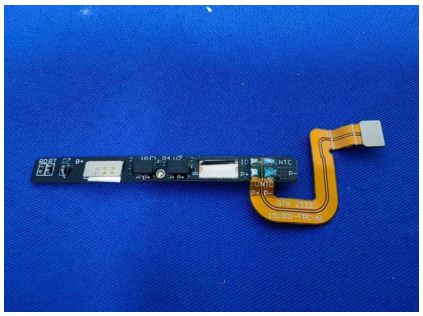


G10

G11

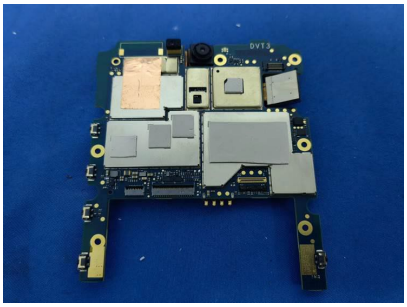
G12

G13



G14

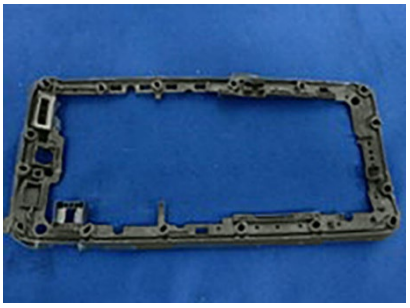
G15



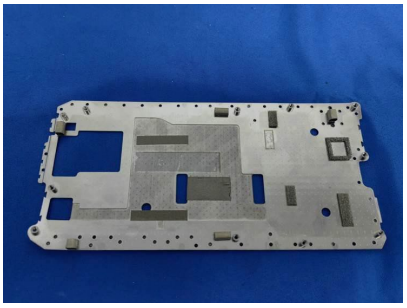
G16

G17

G18

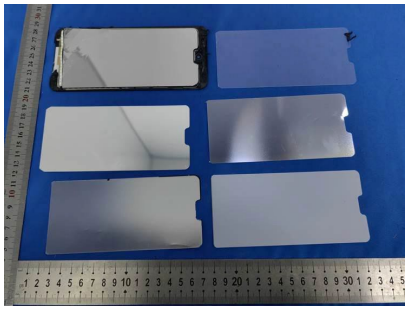


G19

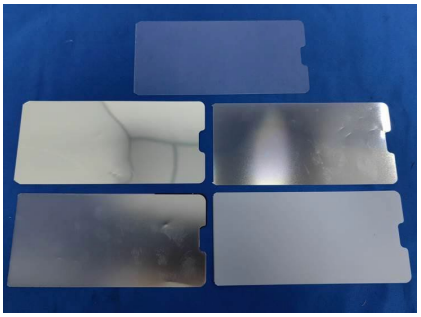


G20

G21



H



H1

H2

4. Disassembly procedure

The disassembly procedure taken here is in accordance with the treatment requirements under the Annex II of the WEEE Directive. In additions, to consider economic and efficiency factors, manual operation and disassembly tools have been applied to separate the components and materials from this product to simulate the scenario at the treatment facility, and to achieve the objective that the separated components and materials can be reused, recycled, and recovered.

a) Connection technique:

For this product, the connection technology including as following:

b) Disassembly time: 43 minutes

5. Materials and Recycling Information

According to the information declared by the applicant company, the material and recycling information for this product is described in the following table.

The reuse, Recycling and recovery assessment for this product is based upon economic and efficiency considerations, and the waste treatment technologies and equipment that are most frequently available to the market.

Photo No.	Component/Material Composition	Weight (g)	Percent Weight (%)	Reuse/ Recycling (%)	Recovery (%)
B9, B10, G13	batteries	187.8339	26.40	26.40	26.40
A4, A8, B2, C4, C5, C6, D2, E2, F7, F8, F11, F12, G1, G5, G9, G17, G20, G21	metal	98.9083	14.03	14.03	14.03
B7, B8, C8, C9, C10, C11, D7, F4, F6, F9, G2, G3, G6, G7, G8, G14, G16	printed circuit boards, the surface more than 10 square centimeters	83.8075	11.89	10.32	10.32
A1, A2, A3, A5, A7, B1, B3, B4, B5, B6, C1, C2, C7, D1, D3, D4, D5, E1, E4, F1, F2, F3, F5, F10, G10, G12, G15, G18, G19, H1	Plastic	260.2587	36.91	36.21	36.21
A6C3D6E3G4G11H2	Other	73.4376	10.42	9.65	9.65
Total		704.2460	99.65	96.61	96.61

Note:

Due to their insignificant weight and the difficulty of their separation in a manual operation, sticker, solder, paint and printing materials are not included in this assessment.

Plastic containing brominated flame retardants is not assessed in the list.

6. Recycling and recovery rate calculation

Reuse Recycling & Recovery Rate using in the report are calculated as following formulas:

$$\text{Recycling Rate} = \frac{\text{Recycling Weight}}{\text{Product total weight}} \quad (\%)$$

$$\text{Recovery Rate} = \frac{\text{Recycling Weight + Energy Recovery Weight}}{\text{Product total weight}} (\%)$$

Total weigh of the product is including the main product and accessories.

7. ANNEX II of WEEE Directive

Selective treatment for materials and components of waste electrical and electronic equipment:

_ Polychlorinated biphenyls (PCB) containing capacitors in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT) (1),

- Mercury containing components, such as switches or backlighting lamps,
- Batteries,
- Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board of greater than 10 square centimeters,
- Toner cartridges, liquid and pasty, as well as color toner,
- Plastic containing brominated flame retardants,
- Asbestos waste and components which contain asbestos,
- Cathode ray tubes,
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons(HFC), hydrocarbons (HC)
- Gas discharge lamps,
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimeters and all those back-lighted with gas discharge lamps,
- External electric cables,
- Components containing refractory ceramic fibers as described in commission directive 97/69/EC of 5 December 1997 adapting to technical progress council directive 67/548/EEC relating to the classification, packaging and labeling of dangerous substances,
- Components containing radioactive substances except for components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation,
- Electrolyte capacitors containing substance of concern (height>25mm, diameter>25mm or proportionately similar volume)

8. Recommendations for WEEE Directive compliance

- To avoid the product not meeting the reuse/recycling/recovery targets regulated under the WEEE Directive and the regulations of EU countries, the applicant company should, when selecting material and components design, consider they can be easy to reuse and recycle. This consideration will lessen the impact of the required international environmental directives and improve the product's competitiveness.
- It is recommended that the applicant company, when designing new product, especially where components and materials have a large weight ratio, should consider using recyclable materials to increase the product's reuse/recycling/recover ratio.

- The product should apply to the RoHS Directive (Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronics equipment). The hazardous substance specification in the directive should be controlled in the homogenous material of this product.
- If a product has changed its product design, or materials or components employed, then the product should be reassessed and retested in accordance with the WEEE Directive for reuse/recycling/recovery assessment and RoHS for restricted/banned substances requirements.

************ End of Report *************