

WEEE Directive Compliance Report

Report No. : HS2210050218A

Date: 2023/12/13

Client : Ubiqconn Technology, Inc.

4F., No. 300, Yangguang St., Neihu Dist., Taipei City 11491, Taiwan

Test Item : Luna3

Model No. : Luna3





Test Specification: WEEE Directive 2012/19/EU Article 11-Recovery Targets

Test Result : All disassembling parts were fitted the requirements of WEEE

Directive.

Test Laboratory : Integrated Service Technology Ltd. **Testing Location** : No.10-1, Lixing 1st Rd., Hsinchu City 300, Taiwan (R.O.C.)

Name of Analysis Institution

Report Review On behalf of Integrated Service Technology

Ubègcann	Launa / Luna3	Version :	02					
	Product Compliance Report							
1 • GENERAL P	PRODUCT REMARK	•••••	2 -					
1.1 COMPLEME	ENTARY MATERIALS	•••••	2 -					
2 • BACKGROU	J ND	•••••	3 -					
2.1 RoHS, 201	1/65/EU:SEE TABLE 1		3-					
,	e Limit of Restraint Item							
2.2 WEEE, 2012/19/EU:SEE TABLE 2								
Table 2: Reu	use & Recovery Rate		3 -					
3 • DISASSEMB	BLY PRINCIPLE	•••••	4 -					
3.1 Selective	ly Treatment	••••••	4 -					
3.2 MATERIAL	CLASSIFICATION	•••••	5 -					
	terial Classification							
3.3 DIRECTIVE	2012/19/EU COMPLIANCE EVALUATION FLOW	•••••	5 -					
4 • PRODUCT C	COMPONENT DISASSEMBLY ASSESSMENT	•••••	6 -					
4.1 DISASSEMB	LY SEQUENCES	•••••	6 -					
4.2 DISASSEM	IBLY SUMMARIES AND SELECTIVE TREATMENT COMP	ONENT	6 -					
5 • 3R CALCULA	ΓΙΟΝ	••••••	14 -					
	ION FORMULA							
5.2 PRODUCT 3	R CALCULATION	••••••	15 -					
5.3 PRODUCT E	DERIVATIVE SUMMARY	•••••	15 -					
5.4 TEST RESU	LT	•••••	15 -					

Ubầcann	Launa / Luna3	Version :	02
	Product Compliance Report	Date :	2023/12/13

1 · General Product Remark

1.1 Complementary Materials

This report applies especially to <u>Luna3</u> of Ubiqconn Technology, Inc.. The testing sample is classified as <u>Category 6</u> under Annex IA of Directive 2012/19/EU.The photos of the testing sample are shown as follows.

Equipment Name / Model No).	Luna3		
	E			
Front View		Side View		
Total Weight(g)	606.5g			
Connection Technique	SnapGlue	ScrewConnector		
Connection Tools	HandKnifeTweez	 Philip Screwdriver Screwdriver 		
Disassembly Time(sec)	254 sec			
Recommended Disassembly Sequence	See 4.1 I	Disassembly Sequence		
Derivative Summary	See 5.2 I	Product 3R Calculation (Table 6)		
Derivative Rate	See 5.3 I	Product Derivative Summary		
Reuse/Recycling Rate	See 5.4 Test Result			
Recovery Rate	See 5.4 7	See 5.4 Test Result		
Estimated Treatment Value*	High			
*Note		nated treatment value is evaluated by the breaking mantling weight		

Ubigconn	Launa / Luna3	Version :	02
/	Product Compliance Report	Date :	2023/12/13

2 • Background

2.1 RoHS 2.0, 2011/65 /EU & 2015/863/EU : See Table 1

Table 1: The Limit of Restraint Item

RoHS	Restraint Item	Value (ppm)
	Lead (Pb)	1,000
	Cadmium (Cd)	100
2011/65/EU	Mercury (Hg)	1,000
2011/03/EU	Chromium VI (Cr ⁶⁺)	1,000
	Polybrominated Biphenyls (PBB)	1,000
	Polybrominated Diphenylethers (PBDE)	1,000
	Bis (2-ethylhexyl) phthalate	1,000
2015/863/EU	Butyl benzyl phthalate	1,000
2013/803/EU	Dibutyl phthalate	1,000
	Disobutyl phthalate	1,000

2.2 WEEE, 2012/19/EU : See Table 2

Table 2: Reuse & Recovery Rate

No	Classification	Recycling	Recovery
VI	IT and telecommunications related equipment (Small)	55%	75%

Ubigconn	Launa / Luna3	Version : 02	02
, —,	Product Compliance Report	Date :	2023/12/13

3 • Disassembly Principle

The product was disassembled into different parts which were major based on the treatment requirements as a set out in the WEEE Directive Annex VII. Material substances, of which a recycling technology is not available or the recycling is not economy and feasible at present, are an assumed to be shredded, incinerated or disposed for landfill without further usage.

3.1 Selectively Treatment

As a minimum the following substances, preparations and components have to be removed from any separately collected WEEE :

- Polychlorinated biphenyls (PCBs) containing capacitors in accordance with Council Directive 96/59/EC of 16 September 1996 on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCBs/PCTs)
- 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 is greater than 10 square centimeters
- Toner cartridges, liquid and pasty, as well as colour toner
- Plastic containing brominated flame retardants
- Asbestos waste and components which contain asbestos
- Cathode ray tubes
- Chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) or hydrocarbons (HCs)
- Gas discharge lamps
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps
- External electric cables
- Components containing refractory ceramic fibres 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 with the exception.



Product Compliance Report

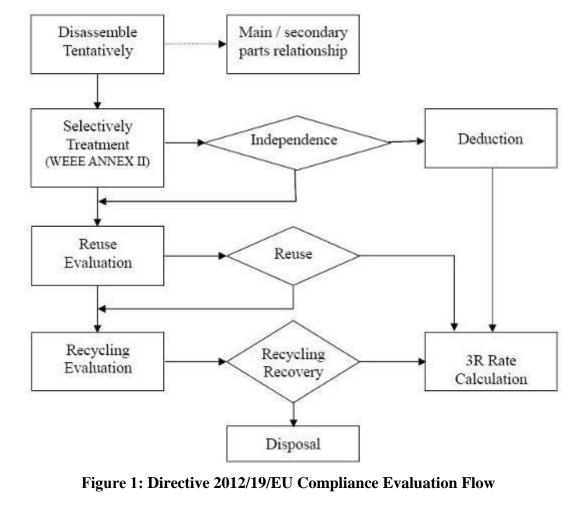
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3.2 Material Classification

Table 3: Material Classification

Worksheets	The material definition	Recovery Attribute
Module Parts	Contained complex Material but with reused value through simple repair process	Reuse
Metal	Including metal of iron department, valuable alloy, etc.	Recycling
	(1)Include pure plastics, mixed plastics, etc.	Recycling & Recovery
Plastics	(2)Second surface Treatment (Without Hazardous Substance) or weight<25 g	Energy Recovery
	(1)General glass	Recycling
Glass	(2)Special-purpose processing glass (such as the leaded oxide glass)	Disposal

3.3 Directive 2012/19/EU Compliance Evaluation Flow





ധ്യാമന	Launa / Luna3 Product Compliance Report	Version : Date :	02
	Product Compliance Report	Date :	2023/12/13
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	Product	Compliance R	eport	Date :	2023/12/13
		Compliance R	eport		2023/12/13

-	ീറ്റവ	0	Launa	a / Luna	3	Version	n: 02
000			Product Com	nplianc	e Report	Date	: 2023/12/13
		sembly desc	ries and selectiv ription is shown	as Table	4.		
Table 4: Sub-assembly Assessments- Launa Name Luna3 Characteristics							
					 Component N Total Disasser Disassembly S Connection To Screw Snap Disassembly T Hand 	nbly Time:25 Sequence:Fro echnique: Con Glu	m Step 1 to 21 nnector ie fe
			Componen	t detailed	Philips Screv Screwdriver information	kni vdriver Tw	fe eezers
Sequ	Dismantling Component Name & Photo Weight Sequence / Component Name & Photo (g)				Connection Technique	Disassembly Time (Sec)	Disassembly
						Time (Bee)	Tools
1	1	Battery		179	Connector	4	Hand
1		Battery Battery Latch Cover		179 2	Connector		
	1	Battery Latch				4	Hand Hand & Philips
	2	Battery Latch Cover		2		4	Hand Hand & Philips Screwdriver

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Launa / Luna3

Version :

Product Compliance Report

Date : 2023/12/13

02

_	Table 4: Sub-assembly Assessments-Launa								
	Component deta					Component detailed information			
	Dismantling Sequence / Part No.		Componen	t Name & Photo	Weight (g)	Connection Technique	Disassembly Time (Sec)	Disassembly Tools	
	4	6	Battery Latch Lock		1	Spor	8	Tweezers	
	4	7	Battery from PCBA	-000	7	Snap	0	Tweezers	
		8	Thermal Pad		1	Glue		Tweezers	
	5	9	Back Cover		28	Glue	16	Hand & Philips Screwdriver	
		10	Snap on Door_TaiDoc		2	Snap		Hand & Philips Screwdriver	
	6	11	PCBA and Wire		3	Screw	8	Hand & Philips Screwdriver	
	7	12	Connector		1.5	Snap	5	Tweezers	
	8	13	Component and Wire	+	1.3	Snap	3	Tweezers	
	9	14	PCBA and Wire		2	Snap	7	Tweezers	
	10	15	РСВА		2	Snap	23	Screwdriver	

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Launa / Luna3

Version :

Product Compliance Report

Date : 2023/12/13

02

	Component detailed information							
Dismantling Sequence / Part No.		Componen	t Name & Photo	Weight (g)	Connection Technique	Disassembly Time (Sec)	Disassembly Tools	
11	16	РСВА		2	Snap	6	Screwdrive	
12	17	РСВА		3	Snap	7	Screwdrive	
13	18	РСВА		109	Snap	12	Screwdrive	
14	19	РСВА	N. S. N. N.	3	Snap	8	Screwdrive	
15	20	Board battery		5	Snap	15	Screwdrive	
16	21	Component and Wire	0	1	Snap	5	Tweezers	
17	22	РСВА		8	Snap	8	Tweezers	
18	23	Metal sheets	5 TAT 10	16	Snap		22	
18	24	Protection Film	-	6		22	Screwdrive	

Ubുമ്പ

Launa / Luna3

Version :

Product Compliance Report

Date : 2023/12/13

02

	Table 4: Sub-assembly Assessments-Launa						
	Component detailed information						
Sequ	antling ence / t No.	Component Name & Photo		Weight (g)	Connection Technique	Disassembly Time (Sec)	Disassembly Tools
	25	Top Assambly (LCM)	Arms and	50			
19	26	Mylar_B201 0001_LCM BTB CON_Sunny -Tek	111111111	0.02	Snap	30	knife
	27	Mylar_B2010 001_LCM BTB CON A_Sunny-Tek		0.02			
20	28	Adapter	200	103.6	Snap	5	knife
21	29	Power Cord	69	61.72	Snap	0	Hand

Ubiaconn	Launa / Luna3	Version :	02
	Product Compliance Report	Date :	2023/12/13

Table 5: Selective treatment component

Materials/ Components	Part No.			
Battery	1,7			
printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimeters	11,15,17,18,20,22			
Note: For details of derivative of numbers indicated above please refer to Table 4				

Ubàcann	Launa / Luna3	Version :	02
	Product Compliance Report	Date :	2023/12/13

5 \ 3R Calculation

5.1 Calculation Formula

The criteria calculation of WEEE 3R (Reuse, Recycling & Recovery) is adopted from the Department of Trade and Industry (DTI, UK.), as shown in Table 5.

Table 5: 3R Calculation Formula

Calculator to help companies assess compliance with WEEE target levels					
Weight of WEEE collected	А	kg			
Weight of whole appliances re-used for original purpose	В	kg			
Weight of components, sub-assemblies and consumables which are re-used for their original purpose or recycled	с	kg			
Target level of WEEE re-use and recycling	C A – B	%			
Weight of WEEE where energy is recovered in a power plant	D	kg			
Target level of WEEE recovery	<u>D + C</u> A – B	%			

Reference : (A guide to marketing, product development and manufacturing actions you need to take)-- GG416 (DTI)

Recycling Rate = (Reuse + Recyclable)/(Products Weight)×100%(1) $P_{\text{recycling}} = P_{\text{recyclable}} + P_{\text{recyclab$

Recovery Rate = (Reuse + Recyclable + Energy recovery)/(Products Weight)×100% (2)

Ubầcann	Launa / Luna3	Version :	02
/	Product Compliance Report	Date :	2023/12/13

5.2 Product 3R Calculation

As a 3R calculating result, it is shown in Table 6.

Table 6: Luna3 Calculation Result

Equip	Equipment Name/Type				Luna3			
Description	Derivative	Weight (g)	Recycle	Energy Recovery	Disposal	Selectively Treatment (WEEE Annex II)		
	Metal	16	1					
Launa	Plastic &Complex Material	590.5	✓	✓				

5.3 Product Derivative Summary

Product Name	Luna3	
WEEE Evaluation	Calculation Weight (g)	
Recycling Weight	585.4	
Energy Recovery Weight	21.1	
Disposal Weight	0	
Selectively Treatment Weight (WEEE Annex VII)	0	
Product Sample Weight (g)	606.5	

5.4 Test Result

PASSED

Product Name	Luna3		
Recycling Rate %	Testing Recycling Rate %		
55%	97.1%		
Required Recovery Rate %	Testing Recovery Rate %		
75%	100%		