



Thank you for giving UL the opportunity to partner with you.

Please note, Follow-Up Procedure Revisions or Report Revisions do not include Authorization Pages, Indices, Section General, and/or Appendices unless revisions were required or requested.

Should you have any questions, after reviewing the material, or need to report any inaccuracies, please reach out to your UL representative or find UL contact details for your local Customer Service Department at <https://www.ul.com/about/locations>.

Please find attached the related material

For your convenience, the below describes the related updates:

E131107-volX4-Index
E131107-20240201-CertificateofCompliance
E131107-A6004-DescriptionUL
Figure-4-Total
E131107-A6004-TestRecordUL

This material is provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Times change, Trust Remains™

File		Volume	Page	Date:
E131107	Index	X4	1	01-Feb-24

Index

<u>Product Type</u>	<u>Model/Type Reference</u>	<u>Report Reference #</u>	<u>Status</u>
Motherboard	CMS101XXXXXXXXXXXXX, CMS103XXXXXXXXXXXXX (X Can be any alphanumeric character, "-" or blank for marketing purpose only and no impact safety related constructions and critical components)	E131107-A6002-UL	
Mother board	CMS100XXXXXXXXXXXXX (X=A-Z, a-z, 0-9, "_", "-" or blank any character for marketing purposed)	E131107-A6004-UL	

Certificate of Compliance

Certificate Number:

UL-US-2405047-0

Report Reference:

E131107-20240201

Issue Date:

2024-02-05

Issued to:

**DFI Inc
10F No 97 Sec 1 Xintai 5th Rd
Xizhi District New Taipei 22175
Taiwan**

This certificate confirms that representative samples of:
**AZOT2 - Audio/Video, Information and Communication
Technology Equipment - Component**

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**UL 62368-1, 3rd Ed., Issue Date: 2019-12-13, Revision Date:
2021-10-22**

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



David Piecuch
UL Mark Certification Program Manager



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

CERTIFICATE OF COMPLIANCE

Certificate number UL-US-2405047-0
Report reference E131107-20240201
Date 2024-02-05

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
CMS100XXXXXXXXXXXXX, (X=A-Z, a-z, 0-9, "_", "-" or blank any character for marketing purposed)	Mother board



David Piecuch
UL Mark Certification Program Manager

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.



Certificate of Compliance

Certificate Number:

UL-CA-2404353-0

Report Reference:

E131107-20240201

Issue Date:

2024-02-05

Issued to:

**DFI Inc
10F No 97 Sec 1 Xintai 5th Rd
Xizhi District New Taipei 22175
Taiwan**

This certificate confirms that representative samples of:

**AZOT8 - Audio/Video, Information and Communication
Technology Equipment Certified for Canada - Component**

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**CSA C22.2 No. 62368-1:19, 3rd Ed., Issue Date: 2019-12-13,
Revision Date: 2021-10-22**

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



David Piecuch
UL Mark Certification Program Manager



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2404353-0
Report reference E131107-20240201
Date 2024-02-05

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
CMS100XXXXXXXXXXXXX, (X=A-Z, a-z, 0-9, "_", "-" or blank any character for marketing purposed)	Mother board



David Piecuch
UL Mark Certification Program Manager

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.



UL TEST REPORT AND PROCEDURE

Standard:	UL 62368-1, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements) CAN/CSA C22.2 No. 62368-1:19, 3rd Ed, 2021-10-22 (Audio/video, information and communication technology equipment Part 1: Safety requirements)
Certification Type:	Component Recognition
CCN:	AZOT2, AZOT8 (Audio/video, Information and Communication Technology Equipment)
Complementary CCN:	N/A
Product:	Mother board
Model:	CMS100XXXXXXXXXXXXX (X=A-Z, a-z, 0-9, "_", "-" or blank any character for marketing purposed)
Rating:	I/P: +3.3 Vdc/+5 Vdc/+12 Vdc/-12 Vdc/+5 Vsb (optional provided on marking plate)
Applicant Name and Address:	DFI INC 10F NO 97 SEC 1 XINTAI 5TH RD XIZHI DISTRICT NEW TAIPEI 22175 TAIWAN

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

UL authorizes the applicant to reproduce the latest pages of the referenced Test Report consisting of the first page of the Specific Technical Criteria through to the end of the Conditions of Acceptability.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared By: Jong Lee / Project Handler

Reviewed By: Chris Kao / Reviewer

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

A. Authorization - The Authorization page may include additional Factory Identification Code markings.

B. Generic Inspection Instructions -

- i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
- ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
- iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

This equipment is a building-in type mother board which is intended to use within audio/video, information and communication technology equipment.

This equipment consists of electronic components mounted on PWB (PCB, V-1 min.).

Model Differences

All models were identical except for marketing purpose.

Test Item Particulars

Product group	built-in component
Classification of use by	--
Supply Connection	not mains connected: ES1
Supply tolerance	None
Supply connection – type	not directly connected to the mains
Considered current rating of protective device	N/A
Equipment mobility	for building-in
Over voltage category (OVC)	not directly connected to mains
Class of equipment	Class III
Special installation location	N/A
Pollution degree (PD)	PD 2
Manufacturer's specified T _{ma} (°C)	65 °C
IP protection class	IPX0
Power systems	not AC mains
Altitude during operation (m)	2000 m or less
Altitude of test laboratory (m)	2000 m or less
Mass of equipment (kg)	Maximum 0.937 kg

Technical Considerations

- The following circuit locations (with circuit/schematic designation) were investigated as a limited power source (LPS) : All output ports which can be accessible by operator in end product.
- The Risk Group of a lamp or lamp system (including LEDs) is : Exempt

- This equipment may be power supplied from the optional approved DC power source evaluated according to UL/IEC 62368-1, and relevant safety information for the optional DC power source shall be "Rated output: +3.3 Vdc/+5 Vdc/+12 Vdc/-12 Vdc/+5 Vsb", "Tma: 65 °C min.".

Engineering Conditions of Acceptability

For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC. When installed in an end-product, consideration must be given to the following:

- The following output circuits are at ES1 energy levels : All circuits
- The following output circuits are at PS2 energy levels : All output ports.
- The following end-product enclosures are required: Mechanical enclosure (for MS safeguard), Fire enclosure (for PS safeguard) and TS safeguard for thermal burn injury.
- All related thermal testing shall be investigated in end-use installation.
- This product is a sub-assembly intended for incorporation in audio/video, information and communication technology equipment, the overall compliance should be investigated in the final system.
- Based on product design and declaration from manufacturer, this equipment is power supplied from external power source which is complied with the requirement of ES1 and separated from mains/hazardous voltage by double/reinforced insulation.

Additional Information

N/A

Additional Standards

The product fulfills the requirements of: N/A

Markings and Instructions

Clause Title	Marking or Instruction Details
Equipment identification marking – Manufacturer identification	Listee’s or Recognized Company’s name, Trade Name, Trademark or File Number
Equipment identification marking – model identification	Model Number

Special Instructions to UL Representative

N/A

BD1.0						
TABLE: Production-Line Testing Requirements						
BD1.1						
Electric Strength Test Special Constructions – Refer to Generic Inspection Instructions, Part AC for further information.						
Model	Component	Removable parts	Test probe location	Test V rms	Test V dc	Test Time, s
--	--	--	--	--	--	--
BD1.2						
Earthing Continuity Test Exemptions – This test is not required for the following models:						
All models						
BD1.3						
Electric Strength Test Exemptions – This test is not required for the following models:						
All models						
BD1.4						
Electric Strength Test Component Exemptions – The following solid-state components may be disconnected from the remainder of the circuitry during the performance of this test.						
--						

BE1.0					
Sample and Test Specifics for Follow-Up Tests at UL					
Model	Component	Material	Test	Sample (s)	Test Specifics
--	--	--	--	--	--

4.1.2	TABLE: List of critical components					Pass
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Product Category CCN(s)	Mark(s) of conformity	Supplement ID
01.Power Distribution Switch (For UBU1, UBU2, UBU3, UBU4 used)	ANPEC ELECTRONICS	APL3552AQBI-TRG	Input Voltage: 2.7 to 5.5 Vdc, Output Current Limit: 2.5 A	QVGS2	UL (E328191)	
01a.Power Distribution Switch (For UBU1, UBU2, UBU3, UBU4 used) (alternate)	Global Mixed-mode Technology	G\$517AL, followed by 1 or 2, followed by TP, TB, RB or U5, followed by 1, 2, or 3, followed by U, D, G or C	Input Voltage: 2.7 to 5.5 Vdc, Output Current Limit: 2.75 A	QVGS2	UL (E232223)	
01b.Power Distribution Switch (For UBU1, UBU2, UBU3, UBU4 used) (alternate)	JOULWATT TECHNOLOGY	JW7115- 1SOTA#TRPBF	Vin: 2.7-5.5 Vdc, Vout: 2.7-5.5 Vdc, Iout: 1.1- 1.5 A	AZOT2	UL (E497605)	
02.Power Distribution Switch(For DPU1, DPU2, DPU605, DPU604 used)	Nuvoton Technology Corp	NCT3532Y	Rated input voltage: 3.0-5.5 Vdc, Rated input current: 0.5 A, Over current trip threshold: 1300 mA.	QVGS2	UL (E346668)	
03. RTC Battery	Interchangeable	CR2032 series	Rated 3V. Max. abnormal charging current: 10 mA min. Reverse current protection by series circuit of Diode (D6, D7) and Resistor (R168) rated 1k ohm min	BBCV2	UL	
04.Heat Sink (U3 used)	Interchangeable	Interchangeable	Metal (AL), See Enclosure Diagram 04- 01 for details.	--	--	

05.PWB	Interchangeable	Interchangeable	V-1 minimum, 105 degree C minimum	ZPMV2	UL	
06. Permanency of Marking	--	--	Engraved laser marking.	--	--	
06a. Label (alternate)	Interchangeable	Interchangeable	65 degree C minimum if maximum surface temperature not specified.	PGDQ2 or PGJ12	UL	
06b. Permanency of Marking (alternate)	--	--	Permanently ink-stamped, silk-screened, molded in, or on self-adhesive labels.	--	--	
07.Plastic Part Materials (other than connectors and receptacles)	Interchangeable	Interchangeable	V-2 minimum, VTM-2 minimum or HF-2 minimum	QMFZ2	UL	
07a. Internal Plastic Part Materials (other than connectors and receptacles) (alternate)	--	--	A size of less than 1750 mm ³ or a mass of less than 4 g.	--	--	
08. Connectors and Receptacles (secondary ES1 circuits)	Interchangeable	Metal/Plastic	Copper alloy pins housed in bodies of plastic rated V-2 minimum	QMFZ2	UL	
08a. Connectors and Receptacles (secondary ES1 circuits) (alternate)	--	--	Flammability level is ignored, when small part (a mass less than 4 g or a size of less than 1750 mm ³) is mounted on V-1 class material	--	--	
08b. Connectors and Receptacles (secondary ES1 circuits) (alternate)	Interchangeable	Interchangeable	--	ECBT2	UL	

08c. Connectors and Receptacles (secondary ES1 circuits) (alternate)	Interchangeable	Interchangeable	--	DUXR or DUXR2	UL	
09. Wiring, internal ES1 circuits (Optional)	Interchangeable	Interchangeable	FEP, PTFE, PVC, Extruded PVC, FRPO, Polyolefin, TFE, neoprene, polyimide or rated VW-1 or FT-1 or better; minimum 30 V, 65 degree C minimum.	AVLV2	UL	

Enclosures

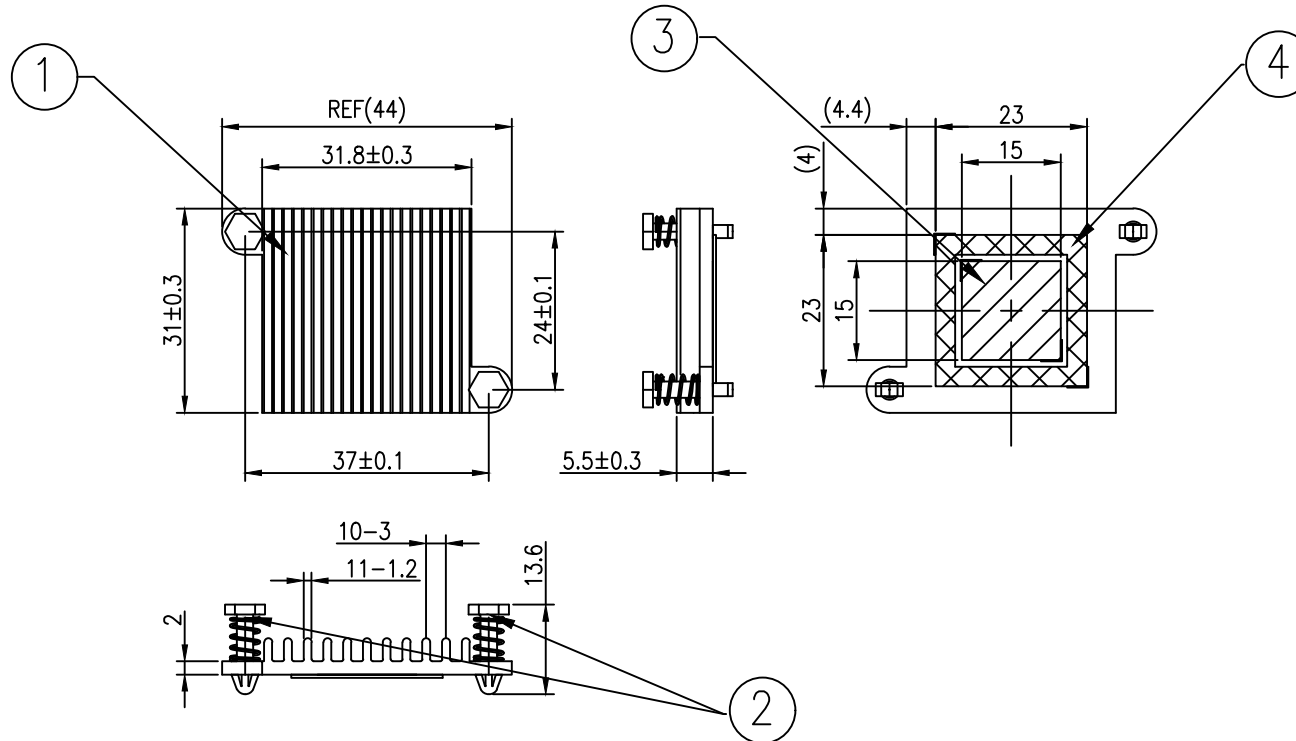
Type	Supplement Id	Description
Photographs	03-01	Top View
Photographs	03-02	Bottom View
Photographs	03-03	Connectors View
Diagrams	04-01	Heatsink drawing (HS1)

The following Page(s) are related to Diagrams-01. The next supplement, if applicable, will be identified with a new Supplement Page Heading.

Notes:

- 1.不可有裂痕,變形,刮傷,髒污,料質,色澤需均勻
- 2.注意包裝方式,不可造成損傷
- 3.參考尺寸標註:REF()
- 4.完成品需符合RoHS管制標準

REVISIONS				
REV	DATE	UPDATE DESCRIPTION	SIGN	EC NO.



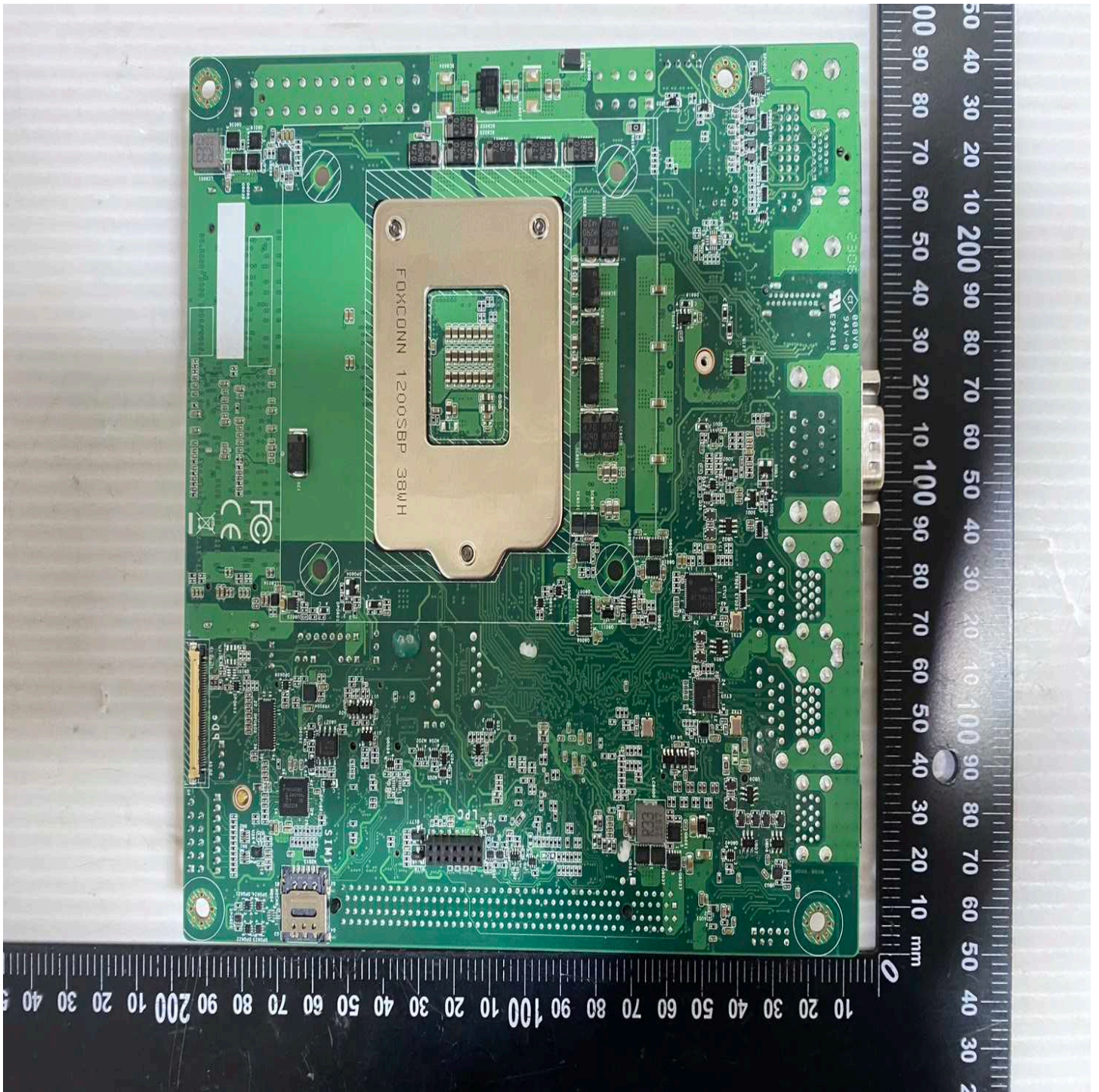
4.	GASKET	06-125	1	E4382 23x23/17x17 0.5t
3.	Pad	02-017	1	T725 15x15x0.127t
2.	Pushpin	08-026	2	NY66
1.	Heatsink	10-709	1	AL6063T5
NO.	NAME	PART NO	QTY	REMARK

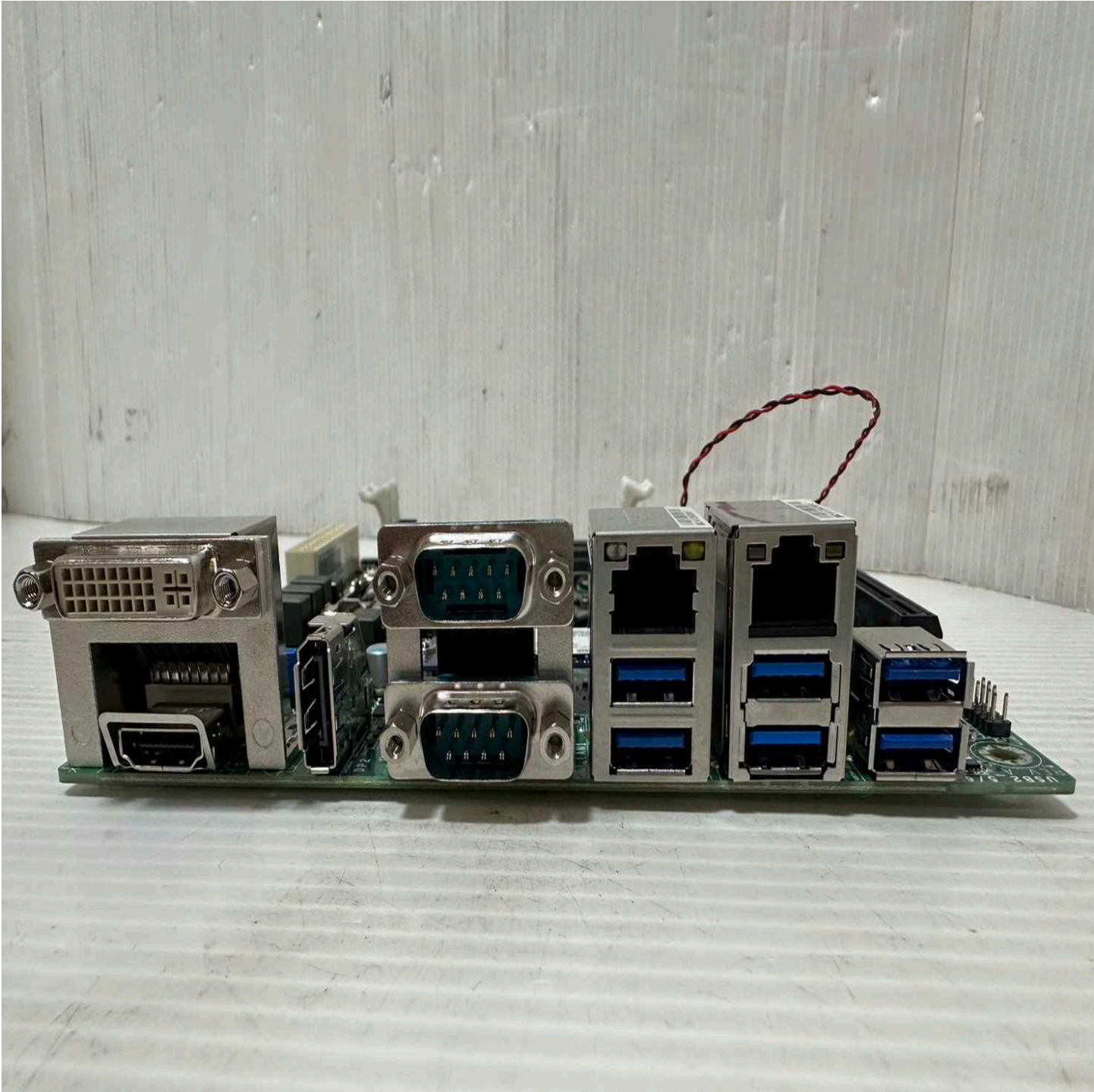
Fever 睿億科技股份有限公司
Fever Technology Co.,Ltd.

MATERIAL: --- FINISH: --- UNIT: mm SCALE: 1:1 PART NAME: ASM DWG NO.: AMF-243-ASM

NO.	DATE	DESCRIPTION	BY	CHECKED BY
1	2024.1.31			

APPROVED BY: Vincent CHECKED BY: Vincent DRAWN BY: Petty DATE: 2024.1.31 PART NO.: G01-1090 REVISION: 00





Test Record No. 1

The manufacturer submitted representing production samples of Motherboard, Models CMS100XXXXXXXXXXXXX (X=A-Z, a-z, 0-9, "_", "-" or blank any character for marketing purposed), fully investigation. All clauses and tests were not considered necessary based upon previous evaluation under the CB scheme. The CB Scheme Test Certificate Ref. No. DK-149887-UL, Dated 2024-01-29, and CB Test Report, Ref. No CB2552312135A, Dated 2024-01-25, were prepared by UL Solutions (Demko).

The following tests were conducted:

Tests performed (name of test and test clause): None	Testing location: None
The following tests were waived: None	Rationale for Waiving

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

The following supplements are provided as part of this Test Record. NOTE: These supplements are only available to the Applicant via the myUL™ Client Portal.

Type	Supplement Id	Description
Attachment	02-01	CRD