Ref. Certif. No.

JPTUV-117567

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Cassia Bluetooth Router
Name and address of the applicant	CASSIA NETWORKS INC 1840 Majestic Way San Jose, CA 95132, USA
Name and address of the manufacturer	CASSIA NETWORKS INC 1840 Majestic Way San Jose, CA 95132, USA
Name and address of the factory	See additional page(s)
Ratings and principal characteristics	DC 12V, 2.0A or DC 57V, 350mA(PoE) Class III
Trademark (if any)	Cassia Networks
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	X2000xxx (x = any alphanumeric character, symbol or blank)
Additional information (if necessary may also be reported on page 2)	For model differences, refer to the test report.
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014 See Test Report for National Differences
As shown in the Test Report Ref. No. which forms part of this Certificate	CN203ABS 001

This CB Test Certificate is issued by the National Certification Body

TÜVRheinland®

TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021, Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web : www.tuv.com

Date: 2021-01-04

Signature: Miao Mai

10/0861 CB 06/2019 rk

1. Zhejiang Sunparl Information
   Technology Co., Ltd
   No19 Xinxing Road , Haining Lianhang Economic
   Development Zone
   Zhejiang, P.R. China

2. WNC (Kunshan) Corporation
   88 Central Avenue,
   Comprehensive Free Trade Zone,
   Kunshan City
   215300 Jiangsu, P.R. China

Additional information (if necessary) Report Ref. No. : CN203ABS 001

Date: 2021-01-04 Signature: Miao Mai

CERTIFICATE of CONFORMITY

No.: MRT202012RSH06

Applicant	:	CASSIA NETWORKS INC
Address	:	1840 Majestic Way San Jose, CA 95132, USA
Manufacturer	:	CASSIA NETWORKS INC
Address	:	1840 Majestic Way San Jose, CA 95132, USA
Product Name	:	Cassia Bluetooth Router
Model Name	:	X2000, X2000-10, X2000-20
Brand Name	:	CASSIA

This product is based on a single evaluation of one sample and confirmed to comply with the following standards.

Applied Standards	Report Number
EN 301 489 - 1 V2.2.3 (2019-11) EN 301 489 - 17 V3.2.4 (2020-09)	2012RSU071-E6
EN 300 328 V2.2.2 (2019-07)	2012RSU071-E1 2012RSU071-E2
EN 301 893 V2.1.1 (2017-05)	2012RSU071-E3 2012RSU071-E4
EN IEC 62311: 2020	2012RSU071-E5
Note: The CE marking may only be used if all relevant and effective EC Directives are complied with.	

CE

Marlin Chen
March 23, 2021

MRT Technology (Suzhou) Co., Ltd
Address: D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

TIMCO ENGINEERING, INC.
849 NW State Road 45
Newberry, Florida 32669
www.timcoengr.com
(352) 472-5500 • CB@timcoengr.com

April 9, 2021

Job Number: 1584-21
Radio Cert. No.: IC: 22505-X2000

Cassia Networks Inc.
1840 Majestic Way,San Jose, CA 95132 CA 95132 United States Of America

Attention: Weiguo Zhou

Dear Cassia Networks Inc.:

We have reviewed the test report and related documents, and are pleased to advise that this device meets our procedural and specification requirements for certification. The field offices have been notified.

The assigned certification number and the model number must be shown on each equipment model. This certification identification information may be shown on the equipment model identification plate or on a separate label that shall be indelible and tamper proof. The certification number shall be prefixed with the letters "IC:". Radio equipment is certified as described on the attached certification certificate.

Certificate(s) are attached for the following HVIN/ model(s):
X2000, X2000-10, X2000-20

Please feel free to contact us if you have any questions or comments.

Sincerely,

Timco Engineering, Inc.

Canadian Certification

TIMCO ENGINEERING, INC.

849 NW State Road 45
Newberry, Florida 32669
www.timcoengr.com
(352) 472-5500 • CB@timcoengr.com

Job No. ➢ 1584-21

TECHNICAL ACCEPTANCE CERTIFICATE

Certification No. ➢ **IC:** 22505-X2000

Issued To ➢ Cassia Networks Inc.
1840 Majestic Way,San Jose, CA
95132 CA 95132 United States Of America

Tested By ➢ MRT Technology (Taiwan) Co., Ltd
Company No.: 21723
NO.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan 33377
Taiwan
chenzker@mrt-cert.com

Type of Equipment
- ➢ Spread Spectrum/Digital Device (2400-2483.5 MHz)
- ➢ Bluetooth Device
- ➢ Spread Spectrum/Digital Device (5725-5850 MHz)
- ➢ Wi-Fi Device

Type of Service ➢ New Family Certification

Hardware Version Id Number (HVIN)
- ➢ X2000
- ➢ X2000-10
- ➢ X2000-20

Firmware Version Id Number (FVIN) ➢ N/A

Product Marketing Name: (PMN) ➢ Cassia Bluetooth Router

Host Marketing (HMN) ➢ N/A

FREQUENCY RANGE	EMISSION DESIGNATIONS NECESSARY BANDWIDTH & EMISSION CLASSIFICATION	R.F. POWER	ANTENNA INFO	SPECIFICATION/ ISSUE & DATE	
2402-2480MHz	1M06F1D	0.016W	Directional, 14dBi	RSS-247	Issue 2; Feb. 17
2402-2480MHz	2M07F1D	0.014W	Directional, 14dBi	RSS-247	Issue 2; Feb. 17
2412-2462MHz	11M9G1D	0.267W	PCB, 3.7dBi	RSS-247	Issue 2; Feb. 17
2412-2462MHz	17M8W7D	0.267W	PCB, 3.7dBi	RSS-247	Issue 2; Feb. 17
5260-5320MHz	17M9W7D	0.033W	PCB, 6.6dBi	RSS-247	Issue 2; Feb. 17
5500-5580MHz	17M9W7D	0.036W	PCB, 6.6dBi	RSS-247	Issue 2; Feb. 17
5660-5720MHz	17M8W7D	0.037W	PCB, 6.6dBi	RSS-247	Issue 2; Feb. 17
5745-5825MHz	17M9W7D	0.039W	PCB, 7.3dBi	RSS-247	Issue 2; Feb. 17
5190-5230MHz	36M4W7D	0.123W	PCB, 6.6dBi	RSS-247	Issue 2; Feb. 17
5210-5210MHz	75M6W7D	0.020W	PCB, 6.6dBi	RSS-247	Issue 2; Feb. 17
5290-5290MHz	75M4W7D	0.004W	PCB, 6.6dBi	RSS-247	Issue 2; Feb. 17
5530-5530MHz	75M4W7D	0.004W	PCB, 6.6dBi	RSS-247	Issue 2; Feb. 17
5690-5690MHz	75M6W7D	0.025W	PCB, 6.6dBi	RSS-247	Issue 2; Feb. 17
5775-5775MHz	75M6W7D	0.026W	PCB, 7.3dBi	RSS-247	Issue 2; Feb. 17

Note 1: This equipment also complies with RSS-102, Issue 5 (March 2015) and RSS-Gen, Issue 5 (April 2018).

Certification of equipment means only that the equipment has met the requirements of the above-noted specification. Licence applications, where applicable to use certified equipment, are acted on accordingly by the ISED issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with the requirements and procedures issued by ISED. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale or sold unless the equipment complies with the applicable technical specifications and procedures issued by ISED.

I hereby attest that the subject equipment was tested and found in compliance with the above-noted specifications.

La certification de l'équipement signifie uniquement que l'équipement a satisfait aux exigences de la spécification susmentionnée. Les demandes de licence, le cas échéant pour utiliser un équipement certifié, sont traitées en conséquence par le bureau émetteur d'ISED et dépendront de l'environnement radio, du service et du lieu d'exploitation existants. Ce certificat est délivré à condition que le titulaire se conforme et continuera de se conformer aux exigences et procédures émises par ISED. L'équipement pour lequel ce certificat est délivré ne doit pas être fabriqué, importé, distribué, loué, mis en vente ou vendu à moins que l'équipement ne soit conforme aux spécifications et procédures techniques applicables émises par ISED.

J'atteste par la présente que le matériel a fait l'objet d'essai et jugé conforme à la spécification ci-dessus.

ISSUED UNDER THE AUTHORITY OF MINISTER OF INDUSTRY
DÉLIVRÉ AVEC L'AUTORISATION DU MINISTRE DES INDUSTRIES

DATE: April 9, 2021

Bruno Clavier, General Manager

Canadian Certification

電信管制射頻器材型式認證證明

證照字號：型式字第 AO 號

一、 申 請 者 ：CASSIA NETWORKS INC.

二、 地 址 ：1840 Majestic Way San Jose, CA 95132, USA

三、 製造廠商 ：CASSIA NETWORKS INC.

四、 器材名稱 ：Cassia Bluetooth Router

五、 廠 牌 ：CASSIA

六、 型 號 ：X2000

七、 發射功率(電場強度)： 2402~2480 MHz：12.03 dBm、2412~2462 MHz：24.27 dBm
5180~5240 MHz：15.17 dBm、5260~5320 MHz：15.15 dBm
5500~5720 MHz：15.73 dBm、5745~5825 MHz：15.92 dBm

八、 工作頻率 ：2402~2480 MHz (GFSK BLE-40CH)
2412~2462 MHz (DSSS-SISO、OFDM-SISO 11CH)
2412~2462 MHz (OFDM-SISO 20M Mode-11CH)
5180~5240 MHz (OFDM-SISO 4CH)、5260~5320 MHz (OFDM-SISO 4CH)
5500~5720 MHz (OFDM-SISO 12CH)、5745~5825 MHz (OFDM-SISO 5CH)
5180~5240 MHz (OFDM-SISO 20M Mode-4CH、40M Mode-2CH、80M Mode-1CH)
5260~5320 MHz (OFDM-SISO 20M Mode-4CH、40M Mode-2CH、80M Mode-1CH)
5500~5720 MHz (OFDM-SISO 20M Mode-12CH、40M Mode-6CH、80M Mode-3CH)
5745~5825 MHz (OFDM-SISO 20M Mode-5CH、40M Mode-2CH、80M Mode-1CH)

九、 審驗日期 ：中華民國 111 年 1 月 27 日

十、 審驗合格標籤式樣：CCAO22LP0040T1

十一、 警語或標示要求：

1. 電信管制射頻器材取得審驗證明者、被授權使用審驗合格標籤或符合性聲明標籤者，應依下列規定辦理，始得販賣：
   (1)於本體明顯處標示審驗合格標籤或符合性聲明標籤及其型號，並於包裝盒標示主管機關標章。最終產品應於本體明顯處標示非隨插即用射頻模組（組件）之審驗合格標籤及最終產品型號，並於包裝盒標示主管機關標章。
   (2)依主管機關或相關技術規範規定於指定位置標示正體中文警語。
2. 於網際網路販賣電信管制射頻器材者，應於該網際網路網頁標示其型號及審驗合格標籤或符合性聲明標籤資訊。但最終產品得僅標示其型號及其組裝之非隨插即用射頻模組（組件）之審驗合格標籤資訊。
3. 本電信管制射頻器材販賣時應隨附正體中文使用手冊或說明書，且所附之使用手冊或說明書之內容應與驗證機關（構）審驗合格版本相符。
4. 使用手冊應標示下列資訊：
   (1)取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

(2)應避免影響附近雷達系統之操作。
(3)高增益指向性天線只得應用於固定式點對點系統。

十二、 特 殊 記 載 事 項 ：

1. 取得審驗證明之電信管制射頻器材或非隨插即用射頻模組（組件），變更原申請者、廠牌、型號、硬體、射頻功能、外觀、顏色、材質、電源供應方式、配件或天線時，除電信管制射頻器材審驗管理辦法另有規定外，應重新申請審驗。
2. 取得型式認證證明、符合性聲明證明或簡易符合性聲明證明者，除電信管制射頻器材審驗管理辦法另有規定外，應妥善保管申請審驗之電信管制射頻器材或非隨插即用射頻模組（組件）、外接電源、配件、外接天線、與檢驗報告或測試報告相符之測試治具及與檢驗報告或測試報告使用相同版本之測試軟體至該器材停止生產或停止輸入後五年。
3. 取得型式認證證明或符合性聲明證明者授權他人使用審驗合格標籤或符合性聲明標籤由取得審驗證明者於主管機關指定網站（https://nccmember.ncc.gov.tw/）登錄或委託原驗證機關（構）登錄。
4. 本器材之審驗範圍僅限無線射頻硬體功能，不及於器材之資通安全檢測。
5. 電磁波曝露量(MPE)標準值 1mW/cm^2，送測產品實測值為 0.2462mW/cm^2。

說明：

1、本公司係經國家通訊傳播委員會委託之驗證機構（機構地址：新北市林口區忠福路491號、電話：(02) 2609-2133），核發本型式認證證明。
2、請依上列型號、標籤式樣於電信管制射頻器材本體明顯處標示其型號及審驗合格標籤，並於包裝盒標示主管機關標章。但最終產品應於本體明顯處標示最終產品型號及上列標籤式樣，並於包裝盒標示主管機關標章。
3、本器材之製造、輸入或販賣須遵守電信管理法相關規定。
4、本公司/中心係依電信管理法第87條第2項及第3項規定訂定之電信管制射頻器材測試機構及驗證機構管理辦法第4條第1項規定，經認證組織(財團法人全國認證基金會)認可產品驗證制度符合CNS 17065或ISO/IEC 17065標準(“TAF標章編號：PC047”)，並經國家通訊傳播委員會委託辦理電信管制射頻器材之審驗工作。

外接電源：N/A

配件：N/A

天線：

1、BLE (Internal Antenna)：PCB Antenna，廠牌/型號：HL Tronics(Kunshan) Co., Ltd. / Q-24254M1-GHW-X2000，天線增益：7.72 dBi 。
2、BLE (External Antenna)：
(1)Directional Antenna，廠牌/型號：DIPOLE COMMUNICATIONS LIMITED / DF24-30V14F，天線增益：14.0 dBi 。
(2)Directional Antenna，廠牌/型號：DIPOLE COMMUNICATIONS LIMITED / DB24-40V14A，天線增益：14.0 dBi 。
(3)Directional Antenna，廠牌/型號：DIPOLE COMMUNICATIONS LIMITED / DB24-120VH14A，天線增益：14.0 dBi 。
(4)Directional Antenna，廠牌/型號：DIPOLE COMMUNICATIONS LIMITED / DB24-65V12A，天線增益：12.0 dBi 。
(5)Directional Antenna，廠牌/型號：DIPOLE COMMUNICATIONS LIMITED / DF24-60V12M，天線增益：12.0 dBi 。
(6)Directional Antenna，廠牌/型號：DIPOLE COMMUNICATIONS LIMITED / DB24-90V11A，天線增益：11.0 dBi 。
(7)Directional Antenna，廠牌/型號：DIPOLE COMMUNICATIONS LIMITED / DF24-90V11M，天線增益：11.0 dBi 。
(8)Directional Antenna，廠牌/型號：DIPOLE COMMUNICATIONS LIMITED / DF24-110V10F，天線增益：10.0 dBi 。
(9)Directional Antenna，廠牌/型號：DIPOLE COMMUNICATIONS LIMITED / DB24-120V10A，天線增益：10.0 dBi 。

(10)Directional Antenna，廠牌/型號：DIPOLE COMMUNICATIONS LIMITED / DB24-120VH09A，天線增益：9.0 dBi 。
(11)Directional Antenna，廠牌/型號：Kenbotong Technology Co., Ltd. / TDJ-2400BKC14，天線增益：14.0 dBi 。
(12)Directional Antenna，廠牌/型號：Kenbotong Technology Co., Ltd. / TDJ-2400BFE，天線增益：14.0 dBi 。
(13)Directional Antenna，廠牌/型號：Kenbotong Technology Co., Ltd. / KBT120VP13-24RT0，天線增益：13.0 dBi 。
(14)Directional Antenna，廠牌/型號：Kenbotong Technology Co., Ltd. / TDJ2400BKCH70，天線增益：11.0 dBi 。
(15)Directional Antenna，廠牌/型號：SuperPass Company Inc. / SPDG16T2，天線增益：12.2 dBi 。
(16)Directional Antenna，廠牌/型號：Siretta Ltd / OSCAR18，天線增益：10.0 dBi 。
3、Wi-Fi (Internal Antenna)：PCB Antenna，廠牌/型號：Airgain / N2420DTS，天線增益： 3.70 dBi (2.4G)、6.60 dBi、7.30 dBi (5GHz)。

備註：
1、 本器材符合低功率射頻器材技術規範(109/07/01)第4.10.1及5.7章節之規定。
2、 本案經申請者切結器材不提供隨貨配件，配件由實驗室(或申請者)提供併同檢驗。若器材販賣時提供隨貨配件，器材及隨貨配件經市場抽驗不合格者，將廢止審驗證明；器材及隨貨配件經市場抽驗合格者，將通知限期重新申請審驗，逾期未重新申請審驗者，將廢止審驗證明。

中 華 民 國 111 年 1 月 27 日

Certificate

Certificate no. CU 72404352 0001

License Holder:
CASSIA NETWORKS INC
1840 Majestic Way San Jose,
CA 95132
USA

Manufacturing Plant:
Inventec Appliances (Jiangning) Corporation
133, Jiang-Jun Road,
Jiangning Economic and Technological Development Zone,
Nanjing
211153 Jiangsu
P.R. China

Report Number: CN24ZJSI 001
Client Reference: Weiguo Zhou

Certification acc. to: UL 62368-1:2019 R10.21
CSA C22.2 NO. 62368-1:19

Product Information

Certified Product: Cassia Bluetooth Router

Model Designation: X2000xxx
(x = alphanumeric character, symbol or blank)

Technical Data:
Trade Mark : Cassia networks
Rating : DC 12 V , 2.0 A or DC 57 V , 350 mA(PoE)
Protection Class : Class III
IP protection class: IPX0

Remarks:

Appendix: 1

Date of issue: 2024-03-07
(yr/mo/day)

TUV Rheinland of North America, Inc.
400 Beaver Brook Rd, Boxborough, MA 01719
Tel +1 (978) 266 9500, Fax +1 (978) 266-9992

无线电发射设备
Radio Transmission Equipment
型号核准证
Type Approval Certificate

美国 CASSIA NETWORKS INC.：

根据《中华人民共和国无线电管理
In accordance with the provisions on the Radio

条例》，经审查，下列无线电发射设备
Regulations of the People's Republic of China , the following

符合中华人民共和国无线电管理规定和
radio transmission equipment , after examination , conforms

技术标准，其核准代码为：CMIIT ID:2021AJ2041
to the provisions with its CMIIT ID:

中华人民共和国工业和信息化部
（发证机关）
Sealed by issuing authority

有效期：五年
Validity

2021 年 03月 01日
Year Month Date

编号：2021-2041
Number

设备名称：5.8GHz/2.4GHz无线局域网/蓝牙设备
Equipment Name

设备型号：X2000
Equipment Type

主要功能：数据传输
Main Functions

调制方式：BPSK/QPSK/16QAM/64QAM/256QAM/DBPSK/DQPSK/CCK
Modulation Mode GFSK π/4-DQPSK 8DPSK

主要技术参数及其指标值：
Main Technical Parameters

频率范围：5725-5850MHz 2400-2483.5MHz
Frequency Range

频率容限：≤20ppm
Frequency Tolerance

发射功率：≤33dBm(EIRP) ≤20dBm(EIRP)
Transmitting Power

占用带宽：≤80MHz ≤40MHz ≤3MHz
Occupied Bandwidth

杂散发射限值：≤-30dBm
Spurious Emission Limits

（核发单位章）
Sealed by issuing authority

2021年 03月 01日
Year Month Date

TCB

GRANT OF EQUIPMENT AUTHORIZATION

TCB

Certification
Issued Under the Authority of the
Federal Communications Commission
By:

Timco Engineering, Inc.
849 NW State Road 45
Newberry, FL 32669

Date of Grant: 04/08/2021

Application Dated: 04/08/2021

Cassia Networks Inc.
1840 Majestic Way,San Jose, CA 95132
SAN JOSE, CA 95132

Attention: Weiguo Zhou , Compliance engineer

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: 2ALGLX2000
Name of Grantee: Cassia Networks Inc.
Equipment Class: **Digital Transmission System**
Notes: **Cassia Bluetooth Router**

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
CC MO	15C	2402.0 - 2480.0	0.016		
CC MO	15C	2412.0 - 2462.0	0.2673		

Power listed is maximum power conducted. Professional installation required. Device operates with specific antennas in MIMO configurations as described in this filing. The antennas use for this device must be installed to provide a separation distance of at least 20cm from all persons and must not transmit simultaneously with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures. Users must be provided with installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

CC: This device is certified pursuant to two different Part 15 rules sections.

MO: This Multiple Input Multiple Output (MIMO) device was evaluated for multiple transmitted signals as indicated in the filing.

TCB

GRANT OF EQUIPMENT AUTHORIZATION

TCB

Certification
Issued Under the Authority of the
Federal Communications Commission
By:

Timco Engineering, Inc.
849 NW State Road 45
Newberry, FL 32669

Date of Grant: 04/08/2021

Application Dated: 04/08/2021

Cassia Networks Inc.
1840 Majestic Way,San Jose, CA 95132
SAN JOSE, CA 95132

Attention: Weiguo Zhou , Compliance engineer

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER: 2ALGLX2000
Name of Grantee: Cassia Networks Inc.
Equipment Class: **Unlicensed National Information Infrastructure TX**
Notes: **Cassia Bluetooth Router**

Grant Notes	FCC Rule Parts	Frequency Range (MHZ)	Output Watts	Frequency Tolerance	Emission Designator
CC	15E	5180.0 - 5240.0	0.0329		
CC	15E	5260.0 - 5320.0	0.0327		
CC	15E	5500.0 - 5720.0	0.0374		
CC	15E	5745.0 - 5825.0	0.0391		

Power listed is conducted. Professional installation required. The antennas use for this device must be installed to provide a separation distance of at least 20cm from all persons and must not transmit simultaneously with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures. Users must be provided with installation instructions and transmitter operating conditions for satisfying RF exposure compliance. This device has 20, 40, and 80 MHz bandwidth modes.

CC: This device is certified pursuant to two different Part 15 rules sections.

Supplier's Declaration of Conformity

As required by the following Notices:

- *Radiocommunications* (Compliance Labelling – Devices) Notice 2014 made under Section 182 of the Australian *Radiocommunications Act 1992*
- *Radiocommunications Labelling (Electromagnetic Compatibility) Notice 2017* made under section 182 of the *Radiocommunications Act 1992*
- *Radiocommunications (Compliance Labelling – Electromagnetic Radiation) Notice 2014* made under Section 182 of the *Radiocommunications Act 1992* and
- *Telecommunications (Labelling Notice for Customer Equipment and Customer Cabling) Instrument 2015* made under Section 407 of the *Telecommunications Act 1997.*

Supplier's Details

N136 Pty. Ltd. (Authorised Agent) ABN: 81 145 810 206
4R/5 Rocla Road, Traralgon VIC 3844

Product Details

Product Description – brand name, type, current model, lot, batch or serial number (if available), software/firmware version (if applicable)

Trade Name	Model Number	Description
CASSIA	**X2000**	**Cassia Bluetooth Router**
CASSIA	**X2000-10**	**Cassia Bluetooth Router**
CASSIA	**X2000-20**	**Cassia Bluetooth Router**

Compliance

Evidence of compliance with applicable standards may be demonstrated by test reports, endorsed/accredited test reports, certification/competent body statements.

Having had regard to these documents, I am satisfied the above-mentioned product complies with the requirements of the relevant ACMA Standards made under the *Radiocommunications Act 1992* and the *Telecommunications Act 1997.*

Applicable Standards

Standard title, number and, if applicable, number of the test report

Standard	Report Number
Radiocommunications (Electromagnetic Compatibility) Standard: 2017 (AS/NZS CISPR 32:2015)	**2012RSU071-A1**
Radiocommunications (Short Range Devices) Standard:2014	**2012RSU071-E1, 2012RSU071-E2, 2012RSU071-E3, 2012RSU071-E4**
Radiocommunications (Electromagnetic Radiation-Human Exposure) Standard:2014	**2012RSU071-E5**

Declaration

I hereby declare that:

1. I am authorised to make this declaration on behalf of the Company mentioned above,
2. the contents of this form are true and correct, and
3. the product mentioned above complies with the applicable above-mentioned standards and all products supplied under this declaration will be identical to the product identified above.

Gordon Slimmon
Director
26 March 2021

1 CERTIFICATE OF CONSTRUCTION TYPE

2 RADIO EQUIPMENT FOR JAPAN

3	Certificate No.:	**2021072/01** **Note: This Certificate contains "Annex A" and is only valid when provided with this Annex.**

4 Element Materials Technology, operating as an Approved Certification Body (ID 205), declares that the listed product complies with the Certification by Type of the Ordinance Concerning Technical Regulations Conformity Certification, etc. Of Specified Radio Equipment (MPT Ordinance No. 37 of 1981).

5	Certificate Holder:	Cassia Networks Inc.
6	Address:	1840 Majestic Way, San Jose, CA 95132, United States of America
7	Name of the Specified Radio Equipment:	Cassia Bluetooth Router
8	Model Number:	X2000, X2000-10, X2000-20
9	Trademark:	CASSIA
10	Category of the Specified Radio Equipment:	**[1] [2] [3] [4] BLE0/BLE1/WIFI 2.4 GHz** Article 2, Paragraph 1, Item (19) **[5] [6] [7] WIFI 5 GHz W52** Article 2, Paragraph 1, Item (19)-3

11 When the holder of this certificate is placing the product on the Japanese market, the product must be affixed with the following Identification Code:

R 205-210072

12 Any deviation to the design and construction of the specified radio equipment that is not certified by Element Materials Technology shall render this certificate invalid.

Josh Batty, Deputy Certification Manager

Date of Certification: 2021-07-06

Revision Date: Not Applicable

Unit 1, Pendle Place, Skelmersdale, West Lancashire, WN8 9PN, United Kingdom
Element Materials Technology Warwick Ltd.
Registered in England and Wales. Registered Office: 5 Fleet Place, London, EC4M 7RD
Company Reg No. 02536659

13 Technical description

Class of Emission:
[1] [2] BLE0/BLE1: F1D
[3] [4] [5] [6] [7] WIFI: G1D, D1D

Frequency:
[1] [2] BLE0/BLE1
2402 MHz – 2480 MHz
[3] WIFI 2.4 GHz 802.11b/g/n HT20
2412 MHz – 2472 MHz
[4] WIFI 2.4 GHz 802.11n HT40
2422 MHz – 2462 MHz
[5] WIFI 5 GHz W52 802.11a/n HT20/ac HT20
5180 MHz – 5240 MHz
[6] WIFI 5 GHz W52 802.11n HT40/ac HT40
5190 MHz – 5230 MHz
[7] WIFI 5 GHz W52 802.11ac HT80
5210 MHz

Output Power:
[1] BLE0: 0.02 mW
[2] BLE1: 0.02 mW
[3] WIFI 2.4 GHz 802.11b/g/n HT20
4.5 mW/MHz
[4] WIFI 2.4 GHz 802.11n HT40
1.5 mW/MHz
[5] WIFI 5 GHz W52 802.11a/n HT20/ac HT20
2.0 mW/MHz
[6] WIFI 5 GHz W52 802.11n HT40/ac HT40
1.0 mW/MHz
[7] WIFI 5 GHz W52 802.11ac HT80
0.5 mW/MHz

Antenna Type and Gain:
Integral Antenna with Maximum Gain
[1] BLE0
DB24-65V12A: 12 dBi
DF24-60V12M: 12 dBi
DB24-90V11A: 11 dBi
DF24-90V11M: 11 dBi
TDJ-2400BKCH70: 11 dBi
DF24-110V10F: 10 dBi
DB24-120V10A: 10 dBi
Oscar-18: 10 dBi
DB24-120VH09A: 9 dBi
Q-24254M1-GHW-X2000 * 3: 7.72 dBi
[2] BLE1
DB24-65V12A: 12 dBi
DF24-60V12M: 12 dBi
DB24-90V11A: 11 dBi
DF24-90V11M: 11 dBi
TDJ-2400BKCH70: 11 dBi
DF24-110V10F: 10 dBi
DB24-120V10A: 10 dBi
Oscar-18: 10 dBi
DB24-120VH09A: 9 dBi
[3] [4] WIFI 2.4GHz: 3.7 dBi
[5] [6] [7] WIFI 5GHz W52: 6.6 dBi

Serial Number: Not Applicable

Software Version: 2.1.0

14 Manufacturer details

Manufacturer: Cassia Networks Inc.

Address: 1840 Majestic Way, San Jose, CA 95132, United States of America

15 **Test report No. (associated with this certificate issue):**

WTX21X04041458W-1 WTX21X04041458W-2 WTX21X04041458W-3 WTX21X04041458W-4

16 **"Restrictions on use", if any:**

5.2 GHz band is restricted to indoor use only (Except when communicating with 5.2GHz high power base stations or relay stations).

17 **Details of revisions to this certificate**

None.

18 **Notes to this certificate**

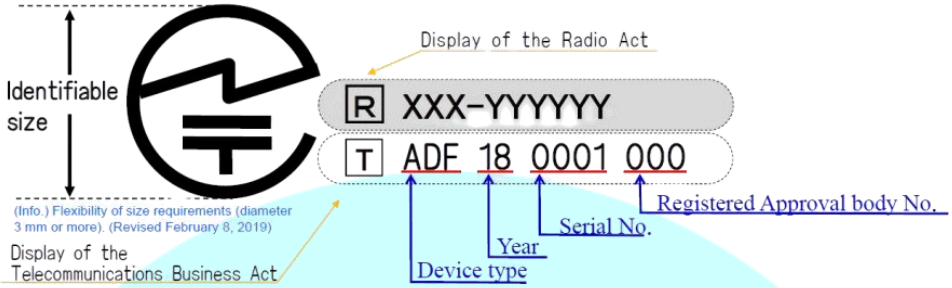
Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Conformity Assessment Body 205 is the designation for Element Materials Technology Warwick Ltd.

GUIDELINES ON MARKING

An example of marking is provided below. It must be affixed to an easily noticeable section of the specified radio or terminal equipment. This marking includes:

- Giteki mark;
- A square containing the letter R for radio equipment or T for terminal equipment;
- A unique certificate number that incorporates the ID number of the certifying CAB;



- The format of the unique number and CAB ID section differs for radio and terminal equipment.

For radio equipment the format is:
CCC-YYNNNN

Example:  R **205-171001**

CCC = CAB ID (205 in case of Element)
YY = Year
NNNN = CAB serial number

Note: *Hyphen is part of the marking requirement*

Additional marking for 5GHz products:
For products using frequencies within 5.15-5.35 GHz, please print the following warning text on your product label.

5.2 GHz 帯域は屋内での使用のみに制限されています
（5.2 GHz 高電力基地局または中継局と通信する場合を除く）
電波法により 5.3 GHz 帯は屋内使用に限ります

Translation: *5.2 GHz band is restricted to indoor use only*
(Except when communicating with 5.2GHz high power base stations or relay stations)
5.3 GHz band is restricted to indoor use due to the Radio Law

Restrictions apply to outdoor products using frequencies within 5.15-5.25 GHz, including:

- For access points and relays, registration in advance is required;
- Usage must not affect satellite equipment, EIRP restrictions according to elevation angles apply;
- Usage must not affect weather radars.

For products using frequencies within 5.47-5.725 GHz may be used indoor and/or outdoor.

More information can be found under: https://www.tele.soumu.go.jp/j/sys/others/wlan_outdoor/index.htm

1 # CERTIFICATE OF CONSTRUCTION TYPE

2 # RADIO EQUIPMENT FOR JAPAN

3	Certificate No.:	**2023094/01** **Note: This Certificate contains "Annex A" and is only valid when provided with this Annex.**

4 Element Materials Technology, operating as an Approved Certification Body (ID 205), declares that the listed product complies with the Certification by Type of the Ordinance Concerning Technical Regulations Conformity Certification, etc. Of Specified Radio Equipment (MPT Ordinance No. 37 of 1981).

5	Certificate Holder:	Cassia Networks Inc.
6	Address:	1840 Majestic Way, San Jose, CA 95132, USA
7	Name of the Specified Radio Equipment:	Cassia Bluetooth Router
8	Model Number:	X2000, X2000-10, X2000-20
9	Trademark:	CASSIA
10	Category of the Specified Radio Equipment:	**[1] [2] [3] [4] BLE0/BLE1/WIFI 2.4GHz** Article 2, Paragraph 1, Item (19) **[5] [6] [7] WIFI 5GHz W52** Article 2, Paragraph 1, Item (19)-3

11 When the holder of this certificate is placing the product on the Japanese market, the product must be affixed with the following Identification Code:

R 205-230094

12 Any deviation to the design and construction of the specified radio equipment that is not certified by Element Materials Technology shall render this certificate invalid.

Josh Batty, Deputy Certification Manager

Date of Certification: 2023-08-03

Revision Date: Not Applicable

Unit 1, Pendle Place, Skelmersdale, West Lancashire, WN8 9PN, United Kingdom
Element Materials Technology Warwick Ltd.
Registered in England and Wales. Registered Office: 5 Fleet Place, London, EC4M 7RD
Company Reg No. 02536659

13 Technical description

Class of Emission:

[1] [2] BLE0/BLE1: F1D
[3] [4] [5] [6] [7] WIFI: G1D, D1D

Frequency:

[1] [2] BLE0/BLE1
2402 MHz – 2480 MHz
[3] WIFI 2.4GHz 802.11b/g/n HT20
2412 MHz – 2472 MHz
[4] WIFI 2.4GHz 802.11n HT40
2422 MHz – 2462 MHz
[5] WIFI 5GHz W52 802.11a/n HT20/ac VHT20
5180 MHz – 5240 MHz
[6] WIFI 5GHz W52 802.11n HT40/ac VHT40
5190 MHz – 5230 MHz
[7] WIFI 5GHz W52 802.11ac VHT80
5210 MHz

Output Power:

[1] BLE0: 0.02 mW
[2] BLE1: 0.02 mW
[3] WIFI 2.4GHz 802.11b/g/n HT20
4.5 mW/MHz
[4] WIFI 2.4GHz 802.11n HT40
1.5 mW/MHz
[5] WIFI 5GHz W52 802.11a/n HT20/ac VHT20
2.0 mW/MHz
[6] WIFI 5GHz W52 802.11n HT40/ac VHT40
1.0 mW/MHz
[7] WIFI 5GHz W52 802.11ac VHT80
0.5 mW/MHz

Antenna Type and Gain:

[1] BLE0
External Antenna with Maximum Gain
DB24-65V12A: 12 dBi
DF24-60V12M: 12 dBi
DB24-90V11A: 11 dBi
DF24-90V11M: 11 dBi
TDJ-2400BKCH70: 11 dBi
DF24-110V10F: 10 dBi
DB24-120V10A: 10 dBi
Oscar-18: 10 dBi
DB24-120VH09A: 9 dBi
iANT214-2400: 8.5 dBi
iANT214-2400D: 8 dBi
iANT221: 7.5 dBi
iANT213-2400: 6 dBi
iANT216M: 6 dBi
iANT212: 2 dBi
iANT213-QB: 2.3 dBi
iANT227M: 3.5 dBi
QB24V8A-F: 8 dBi
QB24V8A-M: 8 dBi

Internal Antenna with Maximum Gain
Q-24254M1-GHW-X2000 * 3: 7.72 dBi

[2] BLE1
External Antenna with Maximum Gain
DB24-65V12A: 12 dBi
DF24-60V12M: 12 dBi
DB24-90V11A: 11 dBi
DF24-90V11M: 11 dBi
TDJ-2400BKCH70: 11 dBi
DF24-110V10F: 10 dBi
DB24-120V10A: 10 dBi
Oscar-18: 10 dBi
DB24-120VH09A: 9 dBi

iANT214-2400: 8.5 dBi
iANT214-2400D: 8 dBi
iANT221: 7.5 dBi
iANT213-2400: 6 dBi
iANT216M: 6 dBi
iANT212: 2 dBi
iANT213-QB: 2.3 dBi
iANT227M: 3.5 dBi
QB24V8A-F: 8 dBi
QB24V8A-M: 8 dBi

Internal Antenna with Maximum Gain
Q-24254M1-GHW-X2000 * 3: 7.72 dBi

[3] [4] WIFI 2.4GHz
External Antenna with Maximum Gain
iANT212: 2 dBi
iANT213-2400: 6 dBi
iANT216M: 6 dBi

Internal Antenna with Maximum Gain 3.7 dBi

[5] [6] [7] WIFI 5GHz W52
External Antenna with Maximum Gain
iANT213-5000: 5 dBi
iANT216M: 6 dBi
iANT212: 2 dBi

Internal Antenna with Maximum Gain 6.6 dBi

Serial Number: Not Applicable

Software Version: 2.1.0

14 **Manufacturer details**

Manufacturer: Cassia Networks Inc.

Address: 1840 Majestic Way, San Jose, CA 95132, USA

15 **Test report No. (associated with this certificate issue):**

WTX21X04041458W-1	WTX21X04041458W-2	WTX21X04041458W-3	WTX21X04041458W-4
2305RSU020-J1 V03	2305RSU020-J2 V03	2305RSU020-J3 V03	2305RSU020-J4 V03

16 **“Restrictions on use”, if any:**

5.2 GHz band is restricted to indoor use only (Except when communicating with 5.2GHz high power base stations or relay stations).

17 **Details of revisions to this certificate**

None.

18 **Notes to this certificate**

Element Materials Technology certification reference: CN-MRSQ-0001.

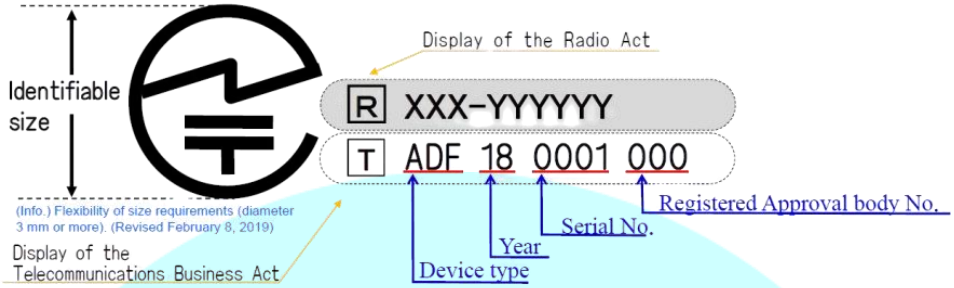
Throughout this certificate, the date format yyyy-mm-dd (year-month-day) is used.

Conformity Assessment Body 205 is the designation for Element Materials Technology Warwick Ltd.

GUIDELINES ON MARKING

An example of marking is provided below. It must be affixed to an easily noticeable section of the specified radio or terminal equipment. This marking includes:

- Giteki mark;
- A square containing the letter R for radio equipment or T for terminal equipment;
- A unique certificate number that incorporates the ID number of the certifying CAB;



- The format of the unique number and CAB ID section differs for radio and terminal equipment.

For radio equipment the format is:
CCC-YYNNNN

Example:  R **205-171001**

CCC = CAB ID (205 in case of Element)
YY = Year
NNNN = CAB serial number

Note: *Hyphen is part of the marking requirement*

Additional marking for 5GHz products:
For products using frequencies within 5.15-5.35 GHz, please print the following warning text on your product label.

5.2 GHz 帯域は屋内での使用のみに制限されています
(5.2 GHz 高電力基地局または中継局と通信する場合を除く)
電波法により 5.3 GHz 帯は屋内使用に限ります

Translation: *5.2 GHz band is restricted to indoor use only*
(Except when communicating with 5.2GHz high power base stations or relay stations)
5.3 GHz band is restricted to indoor use due to the Radio Law

Restrictions apply to outdoor products using frequencies within 5.15-5.25 GHz, including:

- For access points and relays, registration in advance is required;
- Usage must not affect satellite equipment, EIRP restrictions according to elevation angles apply;
- Usage must not affect weather radars.

For products using frequencies within 5.47-5.725 GHz may be used indoor and/or outdoor.

More information can be found under: https://www.tele.soumu.go.jp/j/sys/others/wlan_outdoor/index.htm

Independent Communications Authority of South Africa
350 Witch-Hazel Avenue, Eco Point Office Park, Eco Park, Centurion
Private Bag X10, Highveld Park, 0169

Radio Equipment Type Approval Certificate

EQUIPMENT TYPE APPROVAL NUMBER

TA-2021/1578

The Authority, in the exercise of the powers conferred upon it by section 35 (1) of the Electronic Communications Act, 2005 (Act 36 of 2005), the applicable radio regulations which currently remains in force in terms of section 95 (2) of the Electronic Communications Act and subject to the terms and conditions set out in this document (see overleaf), hereby issues a radio equipment type approval certificate to the company whose name and particulars are listed below:

Company Particulars

Name	: **ZEST WEG ELECTRICAL**
Street Address	: **6, Laneshaw Street, Longlake Ext. 4, Johannesburg, 1619**
Telephone Number	: **011-723-6000**
Registration Number	: **1990/004422/07**

Description of Apparatus

Name	: **CASSIA**
Category	: **RLAN / WLAN**
Model	: **X2000, X2000-10, X2000-20**
Frequencies	: **RLAN or WLAN:** **Band 1: 2.4 GHz-2.4835 GHz(TX)** **RLAN or WLAN:** **Band 1: 2.4 GHz-2.4835 GHz(TX)** **RLAN or WLAN:** **Band 1: 5.15 GHz-5.35 GHz(TX)** **RLAN or WLAN:** **Band 1: 5.47 GHz-5.725 GHz(TX)**
ITU Emission Code	: **RLAN or WLAN: F1D(TX)** **RLAN or WLAN: G1D, D1D(TX)** **RLAN or WLAN: D1D(TX)** **RLAN or WLAN: D1D(TX)**
Modulation	: **RLAN or WLAN: GFSK(TX)** **RLAN or WLAN: DSSS, OFDM(TX)** **RLAN or WLAN: OFDM(TX)** **RLAN or WLAN: OFDM(TX)**
Power Output	: **RLAN or WLAN: 9.73 dBm(TX)** **RLAN or WLAN: 19.77 dBm(TX)** **RLAN or WLAN: 23 dBm(TX)** **RLAN or WLAN: 30 dBm(TX)**
Channel Spacing	: **RLAN or WLAN: 2 MHz(TX)** **RLAN or WLAN: 5 MHz(TX)** **RLAN or WLAN: 5 MHz(TX)** **RLAN or WLAN: 5 MHz(TX)**
Features	: **BTLE, IEEE 802.11 a/b/g/n/ac**

Independent Communications Authority of South Africa
350 Witch-Hazel Avenue, Eco Point Office Park, Eco Park, Centurion
Private Bag X10, Highveld Park, 0169

Supplementary conditions for radio frequency type approved equipment

This certificate is issued subject to the conditions, procedures and instructions as detailed hereunder and must be adhered to:

1. Standard Conditions

1.1 The certificate holder will be obliged to effect, at his/her own expense, any modifications that may be required in order for the type approved equipment to comply with the latest technical specifications issued by the independent Communications Authority of South Africa (ICASA) from time to time.

1.2 All marketed equipment of the same make and model, shall have the same technical and operational characteristics as the evaluated sample(s) that may have been prescribed by ICASA.

1.3 The certificate holder shall not modify type approved equipment or add any facility to it that will cause it to deviate and/or alter its functioning as was evaluated in 1.2 above, nor shall he/she allow any other person to do so, without the written consent of ICASA.

1.4 Should it be found at any time that a type approved equipment is found to be defective and its functioning differs fundamentally to the one evaluated in 1.2 above, the certificate holder will bear the cost of a retest at ICASA's test house/laboratory of choice and ICASA will revoke the type approval certificate.

1.5 This type approval certificate is not transferable and the holder shall not transfer it to any other person or entity, nor surrender it in any other way in favour of another, except with the written approval of ICASA.

1.6 Only South African companies/entities will be the primary holders of the type approval certificates. They will be our first port of call should anything unforeseen emerge with respect to the type approved equipment.

1.7 This type approval certificate does not grant exclusive rights to the current holder. ICASA reserves the right to issue the same certificate to any other person who satisfies our type approval requirements.

1.8 The certificate holder or his agent(s) shall not verbally or otherwise intimate to any person that ICASA sponsors or recommends in any way, the use of particular equipment. However, the licensee may inform potential customers by means of advertising, that he/she is in possession of a valid type approval certificate issued by ICASA for particular equipment. The certificate holder shall have the original or a certified copy of the certificate, available at every point of sale and shall produce same on request.

1.9 Should it be found that faulty RF equipment affect the efficient use of spectrum, ICASA will take necessary steps, as it deems fit and as provided by the Electronic Communications Act to protect other spectrum users.

Pakistan Telecommunication Authority

PTA

TYPE APPROVAL CERTIFICATE

Applicant Name:	CASSIA NETWORKS INC.
Model Number:	X2000
Brand:	CASSIA
Operating Frequency	**WiFi**:2.4-2.5GHz, 5.150-5.350GHz, 5.470-5.725GHz,5.725-5.875GHz,**BT**:2.402-2.480GHz
Type Approval Category:	Router
Features	Built in with WiFi/BT
Country of origin:	China

The Certificate is issued with the terms and conditions stated overleaf.

Date of Issuance: May, 16th

Director (Type Approval)

For and on behalf of
Pakistan Telecommunication Authority
PTA Headquarters, F-5/1, Islamabad, Pakistan
Tel: +92 51 9216767, Fax: +92 51 9216644
Say No to Corruption

To:
CASSIA NETWORKS INC.
97 E. Brokaw Road, Suite 130 San Jose, CA 95112
USA

Pakistan Telecommunication Authority

TAC NO: 9.248/2024

Terms and Conditions

Type Approval Certificate is granted to **CASSIA NETWORKS INC.97 E. Brokaw Road, Suite 130 San Jose, CA 95112 USA** on non-exclusive basis for sale and marketing of the equipment under the following terms and conditions:

1. This Type Approval Certificate is valid subject to Pakistan Telecommunication Re-organization Act 1996, Rules, Regulations, and subsequent amendments therein or directions of the Authority and other applicable laws of Pakistan. It may be cancelled if:

   1.1 Any information given by the applicant is found to be false or misleading, later.
   1.2 It is in contravention of the Type Approval Technical Standards Regulations 2021 and other Regulations, guidelines and directives issued by the Authority from time to time.

2. The device is to be type approved must be complied in line with Type Approval Regulations 2021 (14) related to *"Identity of Terminal Equipment that is type approved by PTA"*.
3. In the event of cancellation of this type approval Certificate, PTA will not admit any claim or liability on account of any investment made by the licensee / company.
4. The device will neither have in-built encryption nor will be attached externally to an encryption device without prior approval of PTA. Furthermore, device shall comply to following conditions:
   - *User data within the devices would be secure and would not be used for mala fide purpose*
   - *No Encoded data from devices will be transmitted to servers hosted outside Pakistan*
   - *While performing, factory reset of device to factory setting no encrypted data is to be transmitted to hosted servers outside territory of Pakistan*
5. The device shall operate only within frequency allocated by PTA /FAB and ensure it will comply with output power/range conditions issued by PTA/FAB where applicable.
6. The device operates within the ISM band and will comply with PTA issued Revised ISM Band Regulations SRO 287(I)/2016 dated 12th February, 2016
7. If the product is found faulty and complaints are received from the customers, type approval holder will be obliged to replace the faulty devices.
8. PTA has the right to cancel/suspend the issued Type Approval Certificate in case the product being imported/sold is found to be having manufacturing faults, hazardous to health/safety and not conforming to standards stated at the time of type approval
9. As per Type Approval Technical Standards Regulations, 2021 10 (7) if already type approved model has been upgraded by the manufacturer and there is no change in the hardware but in the software, it will not require Type approval from the Authority. However, if the hardware for the device has been changed amounting to modification of equipment it shall be considered to be a new model, the model will require a fresh type approval.
10. The device range should not exceed 100 meters, as per undertaking provided by your company. In case of violation, the certificate shall be cancelled.
10. Maximum output power for WiFi:**2.4-2.5GHz/5.725-5.875GHz**:1W,**5.150-5.350GHz/5.470-5.725GHz**:≤200mW and **BT**:100mW.
11. The type approval holder will abide by above referred terms and conditions. In case of non-compliance, legal action shall be initiated as per Telecom Act and PTA Regulations against the type approval holder.

Copy for information to:-

i) Collector of Customs, Karachi/ Lahore/Islamabad/Peshawar.
ii) Director General (Enforcement) PTA H/Qs. F-5/1, Islamabad.
iii) Director Finance PTA H/Qs, Islamabad.

national regulator for compulsory specifications

NRCS IT AND BUSINESS EQUIPMENT\ELECTRONIC LETTER OF AUTHORITY

APPLICANT NAME :	ZEST WEG ELECTRIC (PTY) LTD		
TRADING NAME :	ZEST WEG ELECTRIC		
POSTAL ADDRESS :	PRIVATE BAG X10011 SANDTON 2146	**PHYSICAL ADDRESS :**	47 GALAXY AVENUE LINBRO BUSINESS PARK SANDTON
CONTACT PERSON/S :	W GENT		
TEL NO :	011 7236000		
FAX NO :	011 7236001		
E-MAIL :	smadlala@zestweg.com		

CUSTOMS IMPORTER CODE :	CHECKED
VAT REGISTRATION NO :	CHECKED
COMPANY REGISTRATION NO :	CHECKED

TARIFF HEADING: 8517.12 **REBATE CODE:**

DESCRIPTION	BRAND	COUNTRY OF ORIGIN	APPLICABLE IT STANDARD
CASSIA BLUETOOTH ROUTER	CASSIA	CHINA	SANS IEC 60950

MODEL#

X2000xxx (where x may be any alphanumeric character, symbol or blank, for marketing purposes)

ACCEPTED VARIATIONS

where ! = Blank $ = Alpha # = Numeric @ = Alphanumeric * = Blank or Alphanumeric

CERTIFICATE NO :	000000164901/001	**EXPIRY DATE:**	24 Aug 2024
DATE OF ISSUE :	11 Aug 2021		
AUTHORIZING OFFICER :	Stephina Teffo		
DATABASE ENTRY NO :	164901	**AUTHORIZED :**	

This certificate is issued subject to the conditions attached overleaf

Head Office

SABS Campus 1 Dr Lategan Road Groenkloof Pretoria

NRCS Private Bag X25, Brooklyn Square 0075

Tel: +27 12 482 8700 • Hotline 0800 214 719 • Fax: +27 86 404 7431

Web: www.nrcs.org.za

NRCS Electrical / Electronic Goods Letter of Authority
Conditions of issue

This certificate is issued in terms of the NRCS Act No. 5 of 2008 and remains at all times the property of the National Regulator for Compulsory Specifications. It is issued subject to the conditions detailed below, and may be withdrawn or cancelled at any time, at the sole discretion of the National Regulator for Compulsory Specifications.

1. This certificate is issued without alterations or changes. Any alterations or changes will render it invalid, and may constitute a criminal offence.

2. This certificate is valid only until the Expiry Date stated overleaf, thereafter application should be made for the issue of a new certificate.

3. This certificate is issued for use only by the applicant stated overleaf. This certificate may not be given/sold/cede/traded to any other party, and use of this certificate by any party other than the stated applicant is an offence.

4. This certificate is issued only for the product specified overleaf and may not be issued for any other product, whether similar or not.

5. This certificate is issued only for the specified products, samples of which were submitted for testing. Should any changes be made to the product that could effect compliance with the requirements, or should a different manufacturer be sourced for supply, then the applicant shall submit further samples for testing and approval.

6. The applicant undertakes that he, or his appointed agent, shall present the original of this certificate, and one photocopy to the relevant Customs and Excise clearing official each time a consignment of one or more of the products stated overleaf is cleared for import into the Republic of South Africa.

7. Please note that the National Regulator for Compulsory Specifications maintains constant surveillance in the market and acts on all complaints received from any source. The NRCS will take immediate action against sellers of non-compliant products and apply the sanctions prescribed in the NRCS Act.

Enquiries:

Stephina Teffo

Telephone: +27 12 482 8893
E-mail: stephina.teffo@nrcs.org.za

national regulator for compulsory specifications

NRCS IT AND BUSINESS EQUIPMENT\ELECTRONIC LETTER OF AUTHORITY

APPLICANT NAME :	ZEST WEG ELECTRIC (PTY) LTD		
TRADING NAME :	ZEST WEG ELECTRIC		
POSTAL ADDRESS :	PRIVATE BAG X10011 SANDTON 2146	**PHYSICAL ADDRESS :**	47 GALAXY AVENUE LINBRO BUSINESS PARK SANDTON
CONTACT PERSON/S :	W GENT		
TEL NO :	011 7236000		
FAX NO :	011 7236001		
E-MAIL :	smadlala@zestweg.com		

CUSTOMS IMPORTER CODE :	CHECKED
VAT REGISTRATION NO :	CHECKED
COMPANY REGISTRATION NO :	CHECKED

TARIFF HEADING: 8517.12 **REBATE CODE:**

DESCRIPTION	BRAND	COUNTRY OF ORIGIN	APPLICABLE IT STANDARD
Cassia Bluetooth Router	CASSIA	CHINA	SANS IEC 60950-1

MODEL#

X2000xxx (where x may be any alphanumeric character, symbol or blank, for marketing purposes)

ACCEPTED VARIATIONS

where ! = Blank $ = Alpha # = Numeric @ = Alphanumeric * = Blank or Alphanumeric

CERTIFICATE NO :	000000207335/001	**EXPIRY DATE:**	22 Jul 2027
DATE OF ISSUE :	19 Jul 2024		
AUTHORIZING OFFICER :	Stephina Teffo		
DATABASE ENTRY NO :	207335	**AUTHORIZED :**	

This certificate is issued subject to the conditions attached overleaf

Head Office
SABS Campus 1 Dr Lategan Road Groenkloof Pretoria
NRCS Private Bag X25, Brooklyn Square 0075
+27 12 482 8700 · Hotline: 0800 214719 · Fax: +27 86 404 7431
Web www.nrcs.org.za

Client ID : 48513

GLOBAL APPROVALS PTE. LTD.
108 BEDOK RESERVOIR ROAD #02-320
EUNOS VISTA
SINGAPORE 470108

ATTN : LIN CHENG BOON, ANDREW

Dear Sirs,

EQUIPMENT REGISTRATION UNDER TELECOMMUNICATIONS (DEALERS) REGULATIONS

Registration Number: N1697-23

We acknowledge that the equipment listed below has been registered with the Info-communications Media Development Authority under regulation 20(6) of the Telecommunications (Dealers) Regulations (Cap 323, Rg 6) (the "Dealers Regulations") and approved for sale in Singapore. Your attention is drawn to the relevant provisions and requirements of the Dealers Regulations described below.

Declared Equipment Information

Brand/Trade Name :	CASSIA
Model Name/No.:	X2000
Equipment Description:	Cassia Bluetooth Router
IMDA Spec. No.:	IMDA TS SRD
Equipment Category:	Private Mobile Radio
Equipment Type:	Wireless LAN
Frequency Band (Maximum Radiated Power /Field Strength)	2.4000 - 2.4835 GHz (<= 100 mW (e.i.r.p.)) 2.4000 - 2.4835 GHz (<= 200 mW (e.i.r.p.)) 5.150 - 5.350 GHz (> 100 mW (e.i.r.p.) <= 200 mW (e.i.r.p.)) 5.470 - 5.725 GHz (<= 1000 mW (e.i.r.p.)) 5.725 - 5.850 GHz (<= 1000 mW (e.i.r.p.))
Date of Registration :	12 April 2023
Date of Expiry :	31 March 2028

Note: This is a system generated email. Please do not reply to it. For queries, please email info@imda.gov.sg or telephone at 6377 3800.

Information on Equipment Registration for Complex/Multi-Line Equipment or Short Range/Low Power Devices

1. IMDA may require the equipment supplier to submit test results or evidence of equipment certification as proof of conformity with the applicable IMDA Technical Specification(s)[Regulation 20(5) of the Dealers Regulations]
2. Equipment registration under regulation 20(6) shall be valid for a period of 5 years. [Regulation 20(6) of the Dealers Regulations]
3. The registration may be renewed for periods not exceeding 5 years upon an application being made to IMDA. [Regulation 20(7) and 20(7A) of the Dealers Regulations]
4. Any modification to the registered equipment may require a re-submission. [Regulation 20(8) of the Dealers Regulations]
5. No false or misleading information shall be furnished to IMDA for the purpose of obtaining any equipment registration or renewal of registration. [Regulation 21(1) of the Dealers Regulations]
6. Any registration or renewal of registration granted as a result of submission of false or misleading information shall be null and void. [Regulation 21(2) of the Dealers Regulations]
7. Any person who contravenes regulation 21(1) and submits false or misleading information shall be guilty of an offence. [Regulation 24 of the Dealers Regulations]

Subsecretaría de
Telecomunicaciones

ORD.: Nº **11852** /DO N° 82289/ F14

ANT.:
1. Ingreso SUBTEL N°138048 de 05.08.2021.
2. Resolución Exenta N° 1985 de 2017, y sus modificaciones, de la Subsecretaría de Telecomunicaciones
3. Resolución Exenta N° 3.103 de 2012, de la Subsecretaría de Telecomunicaciones.

MAT.: Certifica equipos de alcance reducido.

SANTIAGO, **30 de Agosto 2021**

DE: SUBSECRETARÍA DE TELECOMUNICACIONES

A: MBSERVICES CERTIFICACIONES SpA

1. Mediante nota de ANT. 1), Ud. solicitó a esta Subsecretaría de Telecomunicaciones la certificación de las emisiones de alcance reducido del tipo de equipo Cassia Bluetooth Router, marca CASSIA, modelos X2000, X2000-10, X2000-20. De acuerdo a la información que adjunta, estos equipos contienen módulos que operan en la banda de frecuencias 2,4 y 5 GHz.

2. De acuerdo a la información proporcionada por documento de ANT. 1), esta Subsecretaría de Estado extiende el presente certificado para operar dentro del país, condicionado al estricto cumplimiento de lo señalado en letra j.1 del artículo 1° de la norma señalada en ANT. 2):

- Tipo de Equipo	:	Cassia Bluetooth Router.
- Marca	:	CASSIA.
- Modelo	:	X2000, X2000-10, X2000-20.
- Fabricante	:	CASSIA NETWORK INC.
- Frecuencias de operación	:	2402-2480; 2412-2472; 5180-5240; 5260-5320; 5500-5720; 5745-5825 MHz.
- Potencia máxima radiada	:	BT: 9,39 mW (9,73 dBm); Wi-Fi 2,4G: 94,84 mW (19,77 dBm); Wi-Fi 5G: 209,89 mW (23,22 dBm).
- Restricciones	:	Estos equipos deben operar al interior de recintos cerrados. Además, en la banda de frecuencias 5150-5250 MHz, la densidad de potencia máxima radiada no excederá 17 dBm/MHz en cualquier banda de 1 MHz.

3. El incumplimiento de lo dispuesto por el presente certificado, será sancionado de acuerdo a las disposiciones legales vigentes.
Estos equipos no deberán provocar interferencias a servicios de concesionarias de telecomunicaciones y no estarán protegidos respecto de interferencias que eventualmente puedan recibir.

Saluda atentamente a Ud.,
Por orden del Subsecretario de Telecomunicaciones

EDUARDO GÁLVEZ LÓPEZ
Jefe División Fiscalización (S)

DISTRIBUCIÓN:
- MBSERVICES CERTIFICACIONES SpA: laboratorio@mbservices.cl
- Equipo Clasificador (a)
- Oficina de Partes.

1. China RoHS

桂花网生产的蓝牙路由器符合 SJ / T 11364-2014
The Bluetooth routers provided by Cassia Networks, Inc. is in conformity with standard SJ / T 11364-2014

产品中有害物质的名称和含量
Hazardous Substances Table

部件名称 (Parts)	有害物质 (Hazardous Substance)					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚(PBDE)
印刷电路板 (PCB)	×	O	O	O	O	O
外壳 (enclosure)	O	O	O	O	O	O
机械组件 (mechanical sub-assemblies)	O	O	O	O	O	O

o：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。(Indicates that this hazardous substance contained in all homogeneous materials of this part is below the limit requirement in GB/T 26572)

×：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials of this part is above the limit requirement in GB/T 26572)

对销售之日的所售产品，本表显示我公司供应链的电子信息产品可能包含这些物质。
(This table shows where these substances may be found in the supply chain of our electronic information products, as of the date of sale of the enclosed product)

除特别标注，根据 GB/T 26572 要求，此标志为针对所涉及产品的环保使用期限标志。
According to GB/T 26572-2011, The Environment-Friendly Use Period (EFUP) for all enclosed products and their parts are per the symbol shown here, unless otherwise marked.

此环保使用期限只适用于产品在产品手册中所规定的条件下工作。

The Environment-Friendly Use Period is valid only when the product is operated under the conditions defined in the product manual.

X2000 EU/EC DECLARATION OF CONFORMITY

Manufacturer Name: Cassia Networks, Inc.

Address: 97 E. Brokaw Road, Suite 130
San Jose, CA 95112 USA

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Product Name: Cassia X2000 Bluetooth Router
Product Model: X2000
Control Indicators: Products manufactured after 15-Oct-2020
Including the Product Modules/Options/Accessories: N/A

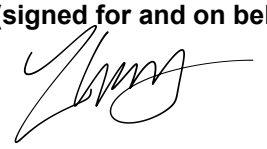
The object of the declaration described above is in conformity with:

- 2014/53/EU, Radio Equipment Directive (RED)
- 2014/30/EU, Electromagnetic Compatibility Directive (EMC)
- 2014/35/EU, Low Voltage Directive (LVD)
- 2011/65/EU, RoHS Directive

The object of the declaration described above is compliant with the standards listed below:

Standards	Description
EN 301 489-1 V2.2.3 (2019-11)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU
EN 301 489-17 V3.2.4 (2020-09)	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU
EN 300 328 V2.2.2 (2019-07)	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
EN 301 893 V2.1.1 (2017-05)	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU
EN 62311: 2020	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0Hz - 300GHz). as specified in Council Recommendation 1999/519/EC
EN 50581: 2012	Technical documentation for the evaluation of electrical and electronic products with respect to restriction of hazardous substances

Signature (signed for and on behalf of Cassia Networks):



Date of Issue: June 23, 2021

Printed Name: Kunpeng Zhang
Title: VP of Hardware

Place of Issue: Beijing, China

República Argentina - Poder Ejecutivo Nacional
AÑO DE LA DEFENSA DE LA VIDA, LA LIBERTAD Y LA PROPIEDAD

Disposición

Número: DI-2024-4275-APN-DNAYRT#ENACOM

CIUDAD DE BUENOS AIRES
Viernes 3 de Mayo de 2024

Referencia: HOM - EX-2024-30173003- -APN-REYS#ENACOM - CT:110475.240321161048.87

VISTO el Expediente EX-2024-30173003- -APN-REYS#ENACOM del registro del ENTE NACIONAL DE COMUNICACIONES, y

CONSIDERANDO:

Que por el Decreto Nº 267 de fecha 29 de diciembre de 2015 se creó el ENTE NACIONAL DE COMUNICACIONES, organismo autárquico y descentralizado, como Autoridad de Aplicación de las leyes Nº 27.078 y Nº 26.522, sus normas modificatorias y reglamentarias, asumiendo las funciones y competencias de la ex AUTORIDAD FEDERAL DE TECNOLOGÍAS DE LA INFORMACIÓN Y LAS COMUNICACIONES y de la ex AUTORIDAD FEDERAL DE SERVICIOS DE COMUNICACIÓN AUDIOVISUAL.

Que mediante Resolución Nº 729 de fecha 24 de diciembre de 1980 del registro de la ex SECRETARÍA DE COMUNICACIONES y modificatorias, se ratificó la creación del Registro de Actividades y Materiales de Telecomunicaciones (RAMATEL) y se aprobó su Reglamento.

Que en el expediente mencionado en el Visto de la presente, el recurrente ha solicitado la inscripción en el Registro de Actividades y Materiales de Telecomunicaciones (RAMATEL) de un equipo de telecomunicaciones y ha cumplimentado la totalidad de los requisitos establecidos en la normativa vigente.

Que el Informe vinculado a la solicitud realizada por el expediente señalado, indica que la presentación se ajusta a lo dispuesto en la resolución mencionada en el segundo considerando de la presente, conceptuando procedente conceder la inscripción solicitada.

Que la presente medida se dicta en uso de las facultades conferidas por RESOL-2017-1630-APN-ENACOM#MCO, de fecha 09 de marzo de 2017.

Por ello,

EL DIRECTOR NACIONAL DE AUTORIZACIONES Y REGISTROS TIC

DEL ENTE NACIONAL DE COMUNICACIONES

DISPONE:

ARTÍCULO 1º.- Otórgase la inscripción en el Registro de Materiales de Telecomunicaciones, al equipo cuyas características se indican a continuación:

Tipo de Equipo: ROUTER INALAMBRICO

Marca: Cassia

Modelo: X2000

Nº de Registro: H-30670

Solicitante: DIKZA S.R.L.

ARTÍCULO 2°.- Establécese que cada unidad, cuya inscripción se otorga por la presente Disposición, deberá identificarse conforme a las pautas mínimas obligatorias para el marcado de equipos, establecidas en la reglamentación específica vigente y las que eventualmente se dicten.

ARTÍCULO 3°.- Déjase establecido que la inscripción otorgada por el Artículo 1º tiene una validez de TRES (3) años contados a partir de la fecha de la presente Disposición, cumplidos los cuales caducará automáticamente de no mediar la petición de renovación correspondiente, que deberá ser interpuesta dentro de los TREINTA (30) días corridos previos al vencimiento, conforme lo determina el inciso 6.3 del Anexo I de la Resolución Nº 729 de fecha 24 de diciembre de 1980 del registro de la ex SECRETARÍA DE COMUNICACIONES.

ARTÍCULO 4°.- Comuníquese, notifíquese y archívese.

Digitally signed by SALAS Pablo Hernan
Date: 2024.05.03 21:19:29 ART
Location: Ciudad Autónoma de Buenos Aires

Pablo Hernán Salas
Director Nacional
Dirección Nacional de Autorizaciones y Registros TIC
Ente Nacional de Comunicaciones

Digitally signed by GESTION DOCUMENTAL ELECTRONICA - GDE
Date: 2024.05.03 21:19:31 -03:00

UNIDAD DE CONCESIONES Y SERVICIOS
IFT/223/UCS/7990/2023

Clasificación archivística: 3S.11.3

INSTITUTO FEDERAL DE TELECOMUNICACIONES

"2023, Año de Francisco Villa, el revolucionario del pueblo"

CERTIFICADO DE HOMOLOGACIÓN
TIPO C
Número de Certificado de Homologación: DOCAX223-32769

DODGE MECHANICAL POWER TRANSMISSION MEXICO, S. DE R.L. DE C.V.

Fecha de emisión e inicio de vigencia:	Tipo de Producto:	Fracción(es):
21 de septiembre de 2023	**Nuevo**	**85176217**
Nombre del Producto: **RUTEADOR PARA RED INALÁMBRICA (Bluetooth Router)**		
Marca **Cassia Networks**		
Modelo(s) **X2000**		

CERTIFICADO DE CONFORMIDAD ÚNICO	
No. de Certificado de Conformidad Único: **NYC-2302CT1332**	Organismo de Certificación: **NORMALIZACIÓN Y CERTIFICACIÓN NYCE, S.C.**
Fecha de emisión: **2023-09-06**	Esquema de Certificación: **II-Muestra por Modelo de Productos y Vigilancia para más de un Lote**
No. de Reporte de Pruebas: **DOE-15745-C-16023**	

CUMPLIMIENTO NORMATIVO

Disposición Técnica IFT-008-2015 (NOM-208-SCFI-2016)	
Banda de Frecuencias:	2400 - 2483.5 MHz / 5725 - 5850 MHz
Potencia pico máxima de salida:	29.58 E-3 W (Salto de Frecuencia) // 4.56 E-3 W / 80.46 E-3 W (Modulación Digital)

CARACTERÍSTICAS TÉCNICAS	
Perito(s) en Telecomunicaciones: **FERNANDO JIMÉNEZ ARCE (IFT-P-0010-2017)**	Número de Dictamen Técnico: **FJA-P010-403**
Banda de Frecuencias:	5150 - 5250, 5250 - 5350, 5470 - 5725 MHz
Potencia de salida::	151.256 mW / 302.62 mW
Modulación:	QPSK / BPSK / 16QAM / 64QAM / 256QAM / 1024QAM

Insurgentes Sur 1143,
Col. Nochebuena, C.P. 03720
Demarcación Territorial Benito Juárez,
Ciudad de México.
Tels. 55 5015 4000

UNIDAD DE CONCESIONES Y SERVICIOS
IFT/223/UCS/7990/2023

Clasificación archivística: 3S.11.3

INSTITUTO FEDERAL DE TELECOMUNICACIONES

"2023, Año de Francisco Villa, el revolucionario del pueblo"

CERTIFICADO DE HOMOLOGACIÓN
TIPO C
Número de Certificado de Homologación: DOCAX223-32769

Nota(s):
ACUERDO por el que se establecen las bandas de frecuencias de 5470 a 5600 MHz y 5650 a 5725 MHz, como bandas de frecuencias del espectro radioeléctrico de uso libre, y las condiciones de operación a que deberán sujetarse los sistemas y dispositivos para su operación en estas bandas. DOF: 27 de noviembre de 2012.; Resolución por medio de la cual la entonces Comisión Federal de Telecomunicaciones expide las condiciones técnicas de operación de las bandas de 5150-5250, 5250-5350, 5725 a 5850 MHz, para su utilización como banda de uso libre. DOF: 14 de Abril de 2006.

Fundamento jurídico

En atención a la solicitud recibida el 12 de septiembre de 2023 con factura de pago de derechos/aprovechamientos: IFT230009109 y en virtud de haber cumplido con los requisitos correspondientes se emite el presente Certificado de Homologación con vigencia indefinida.

Con fundamento en los artículos 289, 290 de la Ley Federal de Telecomunicaciones y Radiodifusión publicada en el Diario Oficial de la Federación el 14 de julio de 2014; 3 fracción IV, 35 fracción II, 69-C, 69-C Bis de la Ley Federal de Procedimiento Administrativo; en los Lineamientos para la homologación de productos, equipos, dispositivos o aparatos destinados a telecomunicaciones o radiodifusión publicados en el Diario Oficial de la Federación el 29 de diciembre de 2021 y los artículos 32, 35 fracción X del Estatuto Orgánico del Instituto Federal de Telecomunicaciones.

Revisó:	Validó:	Autorizó:
EL DIRECTOR DE HOMOLOGACIÓN	**LA DIRECTORA GENERAL**	**EL TITULAR DE LA UNIDAD**
ISAÍAS MORENO GILES	**JOCABED GARCÍA VILLARREAL**	**ÁLVARO GUZMÁN GUTIÉRREZ**

DH23-11111 - Folio de ingreso: EIFT23-32769

SHC

Insurgentes Sur 1143,
Col. Nochebuena, C.P. 03720
Demarcación Territorial Benito Juárez,
Ciudad de México.
Tels. 55 5015 4000

FIRMADO POR: ISAIAS MORENO GILES
FECHA FIRMA: 2023/09/25 1:05 PM
AC: AUTORIDAD CERTIFICADORA
ID: 68678
HASH:
AF30C573E03DFCA13B9E81AED53BC68315C604C9ACBD11
A3F895CA77AEDB4C88

FIRMADO POR: JOCABED GARCIA VILLARREAL
FECHA FIRMA: 2023/09/25 8:30 PM
AC: AUTORIDAD CERTIFICADORA
ID: 68678
HASH:
AF30C573E03DFCA13B9E81AED53BC68315C604C9ACBD11
A3F895CA77AEDB4C88

FIRMADO POR: ALVARO GUZMAN GUTIERREZ
FECHA FIRMA: 2023/09/28 1:48 PM
AC: AUTORIDAD CERTIFICADORA
ID: 68678
HASH:
AF30C573E03DFCA13B9E81AED53BC68315C604C9ACBD11
A3F895CA77AEDB4C88

Av. Lomas de Sotelo 1097 • Col. Lomas de Sotelo • 11200 México • Ciudad de México • Tel. 55 5395 0777
nyce@nyce.org.mx • www.nyce.org.mx
ORGANISMO DE CERTIFICACIÓN ACREDITADO POR ema, a.c. CON ACREDITACIÓN No. 02/10, VIGENTE A PARTIR DEL 01/06/2010

NYCE
A QIMA COMPANY

Certificado de Producto Nuevo de Conformidad con Norma Oficial Mexicana

FR4CER2D

Certificado No.: **NYC-2402C0E11591**

Normalización y Certificación NYCE, S.C. (NYCE), otorga el presente Certificado de Conformidad con Norma Oficial Mexicana con base al informe de resultados de pruebas No. **LL037324**, emitido por el laboratorio **LABORATORIO DE LAREDO SA DE CV**, con número de Acreditación y Aprobación **EE-140-051/12**, en términos de la legislación vigente.
De acuerdo al Procedimiento PCPCER de NYCE y a la solicitud con No. de Referencia **9043C0224**, se otorga el presente certificado con verificación mediante pruebas periódicas a la empresa:

DODGE MECHANICAL POWER TRANSMISSION MEXICO S DE RL DE CV
con domicilio en: AV PUNTO SUR 312 INT. PISO 4, SUITE 123 COL. LOS GAVILANES PONIENTE
TLAJOMULCO DE ZUÑIGA, JAL C.P. 45645
R.F.C. DMP210922332

del siguiente producto:

Producto: **RUTEADOR PARA RED INALAMBRICA (BLUETOOTH ROUTER)**
Marca: **Cassia Networks ---**
Modelo(s): **X2000 ---**
País(es) de Origen: **CHINA (REPUBLICA POPULAR) ---**
País(es) de procedencia: **CHINA (REPUBLICA POPULAR) ---**
Especificaciones Eléctricas: **12 Vcc 2 A, 57 Vcc 350 mA ---**
Fracción(es) Arancelaria(s)*: **85176217 ---**

De conformidad con la Norma Oficial Mexicana **NOM-019-SCFI-1998** "Seguridad de equipo de procesamiento de datos.", publicada en el Diario Oficial de la Federación del 11 de Diciembre de 1998. El presente Certificado de conformidad se expide en la Ciudad de México, el día **17-jul-2024**, con vigencia **de 1 (un) año**, para los efectos que convengan al interesado. La validez de la vigencia estará sujeta al resultado del seguimiento correspondiente.

Certificó: Evaristo RIVERO GAZGA

Ozvh4L3X1QlRWk/HAtNpkZc0EF8sbNDeXh1ODHdHvckgLzRRkoM56OT6UfQcl/JVD0FeyCUs/saR371KEv0zFA0ITMwvr6PEpCAaxB47mWIfqArWg2bvdT7sGqGmER5u0xB/PhShktpr79KabgESnaUxF5UTb2Yi9d7Bx7hOczKWdeXKbyZQLysdOOqAtWRLystUPfCjiQapR8konR3N68PzF27MHEUU+yh81KsIFUB7lJMzJ9u6Q96400GeeiHgdvps6C+zBIugvzs9CL/fKFBfS7NKkElglivDwKOjHBcWqliXynN45ogcKnpjd8T2iilg/E5vgV7CFrVQRGIKA==

Analizó: David Lorenzo MARTÍNEZ TORRES

EBsbLb+V52We36fdowcvsjoHiRuwFDP7iHNeRYaNlzBVhttV/7uIZWDtbApllbyYr6xulQp/PKmv3s62SMkHNAFCzSX0ol7i7H3iZycDtLXHJNt85IdjpbFI/3bQy2MJRUv+JR9eRWhlcmyNtUbzI7KdTOZQLJyWzoMvyep5pboMmjo+tBz8ky3HEqNclcCYyyQ40JH3zwa7pvlppq690Jp360E900Sf/kSdpomea0Uu+6YfhUJaGK3iktbu2Gf1wd7bN7ffDeHXt2TadlBv3wSFUAQ4f4lnZZp6fo6BawiyiLm5ZGIT4I7sWrD9o/dqGEx6GZSioLhPk+Y2HOzjhg==

*Dato declarado por el solicitante del Certificado

Av. Lomas de Sotelo 1097 • Col. Lomas de Sotelo • 11200 México • Ciudad de México • Tel. 55 5395 0777
nyce@nyce.org.mx • www.nyce.org.mx

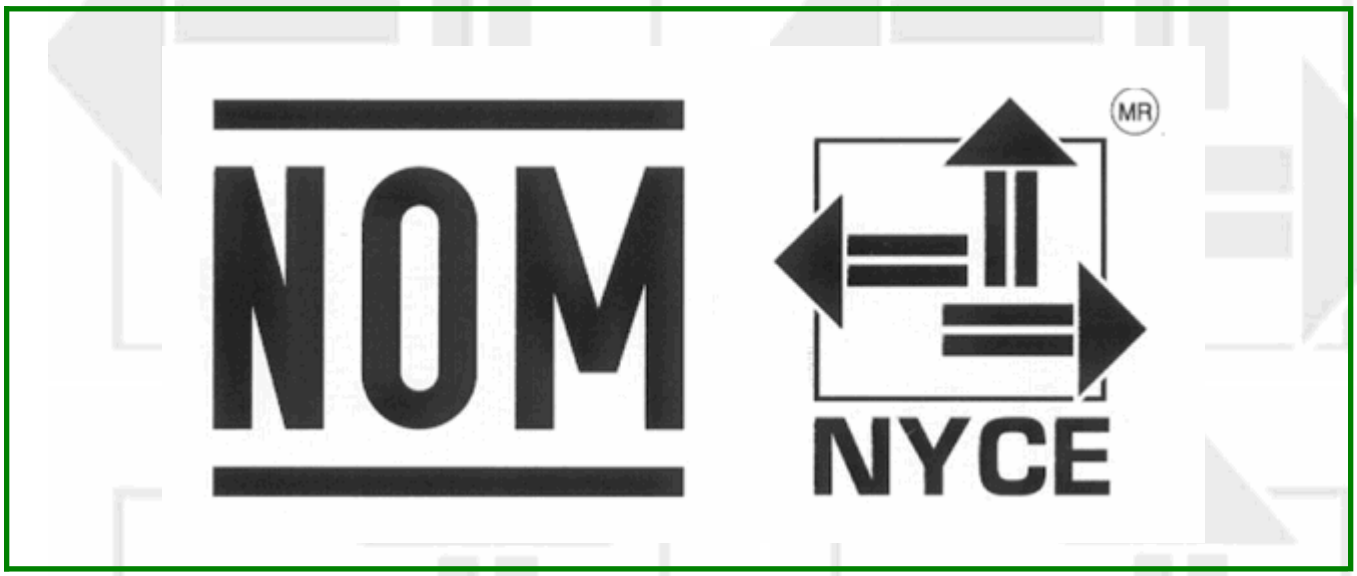
ORGANISMO DE CERTIFICACIÓN ACREDITADO POR ema, a.c. CON ACREDITACIÓN No. 02/10, VIGENTE A PARTIR DEL 01/06/2010

NYCE
A QIMA COMPANY

No. de Referencia: **9043C0224**

Certificado No.: **NYC-2402C0E11591**

El presente Certificado de Conformidad significa la concesión del derecho de Uso de la Contraseña Oficial y de la Marca registrada del Organismo **NOM-NYCE** la cual ostentará, en forma legible e indeleble, los productos que ampara este Certificado de Conformidad, de acuerdo a lo indicado en la siguiente figura:



La Contraseña Oficial **NOM** y la marca registrada **NYCE** quedan sujetas al cumplimiento de los "Lineamientos de Uso de la Contraseña Oficial" y del "Reglamento de Uso de Contraseñas"

CLÁUSULAS

1. El titular exhibirá la Contraseña **NOM-NYCE** mediante etiquetas, estampado u otro procedimiento que la haga ostensible en cada unidad de los productos que ampara este Certificado.

2. El titular de este Certificado se compromete a respetar las condiciones de uso, tanto del propio Certificado de Conformidad como de la Contraseña **NOM-NYCE**.

3. El titular del Certificado debe garantizar que los productos certificados que ostentan la Contraseña **NOM-NYCE** cumplen con las especificaciones de la Norma Oficial Mexicana aplicable.

4. Ni este certificado de Conformidad ni el uso de la Contraseña, sustituye en ningún caso la garantía del producto que corresponde en los términos de la legislación y de las normas en vigor.

5. El Certificado debe ser automáticamente cancelado, en el momento que:
   - Las especificaciones técnicas en las que se basa el Certificado de Conformidad hayan sufrido cambios y no sea posible realizar una reevaluación del producto.
   - Se incurra en el mal uso del Certificado de Conformidad o de la Contraseña.
   - A petición por escrito del titular.
   - Se detecte durante la vigencia del certificado que el producto certificado deja de cumplir con la norma bajo la cual se certificó.

6. Todo empleo indebido del Certificado de Conformidad ya sea del titular o de un tercero, dará derecho a una acción legal o judicial por parte de **NYCE**.

Certificó: Evaristo RIVERO GAZGA

Ozvh4L3X1QlRWk/HAtNpkZc0EF8sbNDeXh1ODHdHvckgLzRRkoM56OT6UfQcl/JVD0FeyCUs/saR371KEv0zFA0ITMwvr6PEpCAaxB47mWIfqArWg2bvdT7sGqGmER5u0xB/PhShktpr79KabgESnaUxF5UTb2Yi9d7Bx7hOczKWdeXKbyZQLysdOOqAtWRLystUPfCjiQapR8konR3N68PzF27MHEUU+yh81KsIFUB7lJMzJ9u6Q96400GeeiHgdvps6C+zBIugvzs9CL/fKFBfS7NKkElglivDwKOjHBcWqliXynN45ogcKnpjd8T2iilg/E5vgV7CFrVQRGIKA==

Analizó: David Lorenzo MARTÍNEZ TORRES

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***Dato declarado por el solicitante del Certificado**

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ORGANISMO DE CERTIFICACIÓN ACREDITADO POR ema, a.c. CON ACREDITACIÓN No. 02/10, VIGENTE A PARTIR DEL 01/06/2010

FR5TLC2

CERTIFICADO DE CONFORMIDAD DE PRODUCTO

Certificado No.: **NYC-2302CT1332**

Fecha de emisión: **6-septiembre-2023**

Normalización y Certificación NYCE S.C.(NYCE) en su carácter de Organismo de Certificación de Producto, acreditado y autorizado de conformidad con el artículo 15 fracción XXVI de la Ley Federal de Telecomunicaciones y Radiodifusión y artículo 35 fracción IX del Estatuto Orgánico del Instituto Federal de Telecomunicaciones, con número de Acreditación **02/10** , y vigencia indefinida a partir del **02/05/2022** , y Autorización IFT/223/UCS/DG-AUSE/3724/2022 , con vigencia indefinida a partir del **20/05/2022.**

En atención a la solicitud con número de Referencia **STOC1323-23** ingresada el **10/08/23** , y de acuerdo al Procedimiento de Evaluación de la Conformidad en Materia de Telecomunicaciones y Radiodifusión se otorga el presente Certificado de Conformidad al interesado el cual estará sujeto a la correspondiente vigilancia por parte del Organismo de Certificación NYCE, de acuerdo a lo establecido en el propio Procedimiento de Evaluación de la Conformidad en Materia de Telecomunicaciones y Radiodifusión.

Lo anterior, sin perjuicio de las atribuciones del Instituto Federal de Telecomunicaciones establecidas en la Ley Federal de Telecomunicaciones y Radiodifusión y demás disposiciones aplicables

Modalidad: **II) Muestra por modelo de productos y vigilancia para más de un lote** Tipo de Producto: **Producto Nuevo**

Titular del Certificado de conformidad y en su caso las filiales, subsidiarias y/o importadores *

DODGE MECHANICAL POWER TRANSMISSION MEXICO S DE RL DE CV

con domicilio en: AV PUNTO SUR 312 INT. PISO 4, SUITE 123 COL. LOS GAVILANES PONIENTE
TLAJOMULCO DE ZUÑIGA, JAL C.P. 45645

R.F.C. DMP210922332

* Ver Anexo de Filial(es)/Subsidiaria(s)/Importador(es) en su caso.

El presente Certificado de Conformidad se otorga al Interesado, para demostrar la conformidad con las Disposiciones Técnicas (DT) expedidas por el Instituto Federal de Telecomunicaciones y las Normas Oficiales Mexicanas (NOM) complementarias expedidas por la Secretaría de Economía, en términos de lo establecido por el artículo 7 de la Ley Federal de Telecomunicaciones y Radiodifusión; así como en el Procedimiento de Evaluación de la Conformidad en materia de telecomunicaciones y radiodifusión, emitido por el Instituto Federal de Telecomunicaciones, y con sustento en el(los) Reporte(s) de Pruebas siguiente(s):

No. de reporte	Fecha emisión	Laboratorio	Acreditación	Autorización	No. de Identificador único
DOE-15745-C-16023	2023-08-24	ADVANCE WIRE & WIRELESS LABORATORIOS SC	EE-0301-015/11	IFT/223/UCS/1891/2022	N/A

acreditado(s) y autorizado(s) o reconocido(s) de conformidad con los " Lineamientos para la acreditación, autorización, designación y reconocimiento de laboratorios de prueba."

Certificó: Adrian LOPEZ HERNANDEZ

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Analizó: Abel ZALDIVAR GALEANA

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OEYFVU3zkxzzhnLVNfdS9O03RAU62nEzY5TYvWvFi+bIhqvuiuS
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ORGANISMO DE CERTIFICACIÓN ACREDITADO POR ema, a.c. CON ACREDITACIÓN No. 02/10, VIGENTE A PARTIR DEL 01/06/2010

NYCE
A QIMA COMPANY

Certificado No.:**NYC-2302CT1332**

Fecha de emisión:**6-septiembre-2023**

Datos del Producto, equipo, dispositivo o aparato en materia de Telecomunicaciones o Radiodifusión Certificado

Nombre Genérico:	**RUTEADOR PARA RED INALÁMBRICA (Bluetooth Router)**
Marca:	**Cassia Networks ---**
Modelo(s) del Producto:	**X2000 ---**
Fabricante, importador y/o comercializador por:	**Cassia Networks**
Bodega:	**Calle: PUNTO SUR 312 Número Exterior: 312 Número Interior: PISO 4, SUITE 123 Colonia: LOS GAVILANES PONIENTE Municipio o Demarcación territorial: TLAJOMULCO DE ZUÑIGA Código Postal: 45645 Entidad Federativa: JALISCO**
País(es) de fabricación o ensamblado final:	**CHINA (REPUBLICA POPULAR) ---**
País(es) de procedencia:	**CHINA (REPUBLICA POPULAR) ---**
Fracción arancelaria*:	**85176217 ---**

El presente Certificado de Conformidad con:

NOM-208-SCFI-2016 (IFT-008-2015) "Productos. Sistemas de radiocomunicación que emplean la técnica de espectro disperso -Equipos de radiocomunicación por salto de frecuencia y por modulación digital a operar en las bandas 902 MHz - 928 MHz, 2400 MHz - 2483.5 MHz y 5725 MHz - 5850 MHz -Especificaciones y métodos de prueba

Se expide en la Ciudad de México de acuerdo al procedimiento **PCPTLC**, la vigencia de este certificado es **indefinida** y estará sujeta a la vigilancia de acuerdo con la legislación vigente.

Características Técnicas:

NOM-208-SCFI-2016(IFT-008-2015)
Banda(s) de Frecuencias: 2 400.33 MHz – 2 481.66 MHz // 2 404.53 MHz – 2 479.21 MHz / 5 733.68 MHz – 5 836.06 MHz
Salto de Frecuencia:
Potencia pico máxima de salida: 29.58 E-3 W;
Emisiones no esenciales radiadas: 0.98 nW;
PIRE medido a máxima potencia: 93.02 E-3 W.
Modulación Digital:
Densidad espectral de potencia del transmisor: -23.37 dBm/3kHz / -19.33 dBm/3kHz;
Potencia pico máxima de salida: 4.56 E-3 W / 80.46 E-3 W;
Emisiones no esenciales radiadas: 36.64 nW / 60.35 nW;
PIRE medido a máxima potencia: 31.29 E-3 W / 111.02 E-3 W;
Lote 1(10,000).

***Dato declarado por el solicitante del Certificado**

Certificó: Adrian LOPEZ HERNANDEZ

m3J+tKB/IQ5xcWjA5iwRLTs3DdG4hikoOwc2xLVsQKbh/+5HNWRIsQxWKTyMPZIGXqRUkgv73cHhqmWu0i
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Analizó: Abel ZALDIVAR GALEANA

XUT5IshGd
+aLLoBKgt/mpcc/TUb7DIx2NoEY6P5qggFmUDY66jfCbLadjwGSjd0fNldGmN9VUc8msRLCRfI8BgfrMaj0cPxjmgdBnSwaIqYk1bn1tPW26sYaWtI7GZ2i9DSaoKuUr9f7dkYJkB7ze3q0dudQu3
OEYFVU3zkxzzhnLVNfdS9O03RAU62nEzY5TYvWvFi+bIhqvuiuS
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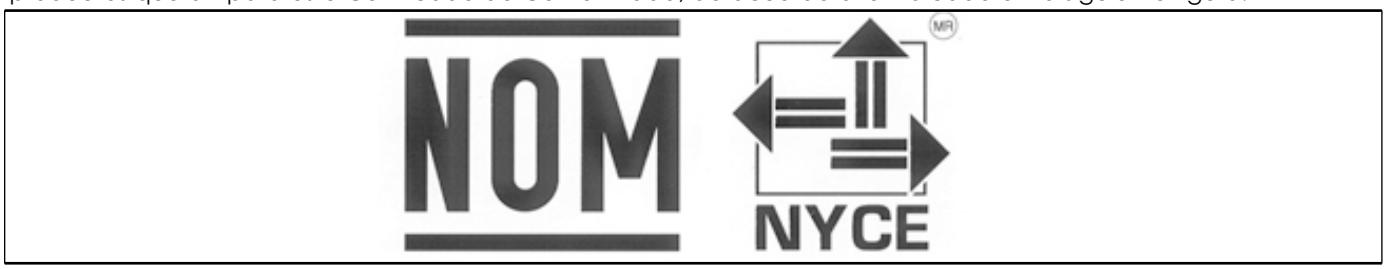
ORGANISMO DE CERTIFICACIÓN ACREDITADO POR ema, a.c. CON ACREDITACIÓN No. 02/10, VIGENTE A PARTIR DEL 01/06/2010

Certificado No.:**NYC-2302CT1332**

Fecha de emisión:**6-septiembre-2023**

El presente Certificado de Conformidad significa la concesión del derecho de Uso de la Contraseña Oficial y de la Marca registrada del Organismo **NOM-NYCE** la cual deben ostentar, en forma legible, discernible e indeleble, los productos que ampara este Certificado de Conformidad, de acuerdo a lo indicado en la siguiente figura:



La Contraseña Oficial **NOM** y la marca registrada **NYCE** quedan sujetas al cumplimiento del "Reglamento de Uso de Contraseñas"

CONDICIONES

DEL INSTITUTO DE ACUERDO AL PROCEDIMIENTO DE EVALUACIÓN DE LA CONFORMIDAD EN MATERIA DE TELECOMUNICACIONES Y RADIODIFUSIÓN:

PRIMERA. – La vigencia del presente Certificado estará sujeto a la correspondiente Vigilancia del cumplimiento de la Certificación por parte del Organismo de Certificación que lo emite, de acuerdo a lo establecido en el propio Procedimiento de Evaluación de la Conformidad en Materia de Telecomunicaciones y Radiodifusión.
Lo anterior, sin perjuicio de las atribuciones del Instituto Federal de Telecomunicaciones establecidas en la Ley Federal de Telecomunicaciones y Radiodifusión y demás disposiciones aplicables.
El Instituto podrá requerir en cualquier momento al titular del presente certificado, la presentación de información técnica adicional, así como las muestras físicas del Producto en cuestión para realizar pruebas de comportamiento y verificar las características del mismo.
SEGUNDA. – El presente Certificado podrá suspenderse o revocarse en caso de incurrir en alguno de los supuestos de los artículos 15 y 16 del Procedimiento de Evaluación de la Conformidad en Materia de Telecomunicaciones y Radiodifusión.
TERCERA. – Los equipos amparados por este certificado de conformidad deben exhibir el número de homologación correspondiente, así como la marca y el modelo con la que se expide este certificado en cada unidad de producto mediante marcado o etiqueta que lo haga ostensible, claro, visible, legible, intransferible e indeleble con el uso normal, de tal forma que ofrezca seguridad y certidumbre al usuario o consumidor e impida su mal uso. De no ser posible exhibir dicho número en el Producto mismo debe hacerse en su envase, embalaje, etiqueta, envoltura, hoja viajera, registro electrónico interno o manual. El marcado o etiqueta a que se refiere esta condición, debe cumplir con los elementos y características que indique la disposición que al efecto emita el Instituto.
CUARTA. – La certificación de este Producto no significa la autorización o concesión para prestar servicios públicos de telecomunicaciones o radiodifusión, ni para establecer aplicaciones que obstruyan o invadan cualquier vía general de comunicación, ni uso del espectro radioeléctrico que no esté debidamente autorizado o concesionado.
QUINTA. – El incumplimiento de las condiciones estipuladas en este Certificado de Conformidad será motivo de sanción con base en lo dispuesto en la Ley Federal de Telecomunicaciones y Radiodifusión.

DEL ORGANISMO DE CERTIFICACIÓN:

1.El titular debe exhibir la Contraseña NOM-NYCE mediante etiquetas, estampado u otro procedimiento que la haga ostensible en cada uno de los productos que ampara este Certificado.
2.El titular de este Certificado se compromete a respetar las condiciones de uso, tanto del propio Certificado de Conformidad como de la Contraseña NOM-NYCE.
3.El titular del Certificado debe garantizar que los productos certificados que ostentan la Contraseña NOM-NYCE cumplen con las especificaciones de la(s) Norma(s) Oficial(es) Mexicana(s) aplicable(s).
4.Ni este certificado de Conformidad ni el uso de la Contraseña, sustituyen en ningún caso la garantía del producto que corresponde en los términos de la legislación y de las normas en vigor.
5.Todo empleo indebido del Certificado de Conformidad ya sea del titular o de un tercero, dará derecho a una acción legal o judicial por parte de NYCE

Certificó: Adrian LOPEZ HERNANDEZ

m3J+tKB/lQ5xcWjA5iwRLTs3DdG4hikoOwc2xLVsQKbh/+5HNWRIsQxWKTyMPZlGXqRUkgv73cHhqmWu0i
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Analizó: Abel ZALDIVAR GALEANA

XUT5IshGd
+aLLoBKgt/mpcc/TUb7DIx2NoEY6P5qggFmUDY66jfCbLadjwGSjd0fNldGmN9VUc8msRLCRfl8BgfrMaj0cPxjmgdBnSwaIqYk1bn1tPW26sYaWtI7GZ2i9DSaoKuUr9f7dkYJkB7ze3q0dudQu3
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RADIO SPECTRUM MANAGEMENT

MINISTRY OF BUSINESS, INNOVATION & EMPLOYMENT
HĪKINA WHAKATUTUKI

Supplier's Declaration of Conformity

Section 134 (1) (g) of the New Zealand Radiocommunications Act 1989

Supplier's Details:

Name: **Z571 Limited**
Supplier Number: **E3450**
New Zealand Company or GST Number: **1628242**

Address:
C/- Hohepa Chartered Accountants Limited
42 Spinniker Drive
Te Atatu Peninsula
Auckland, New Zealand

Contact Information:
Telephone: +64 9 834 3712
Fax: +64 9 834 3714
E-mail: blulennz@blulen.net

Postal Address:
PO Box 45 255
Te Atatu Peninsula
Auckland, New Zealand

Product Details:

Brand Name	Model Number	Description
CASSIA	**X2000**	**Cassia Bluetooth Router**
CASSIA	**X2000-10**	**Cassia Bluetooth Router**
CASSIA	**X2000-20**	**Cassia Bluetooth Router**
Applicable Standards Title, Number and Edition		
EN 300 328 V2.2.2 EN 301 893-1 V2.1.1 AS/NZS CISPR 32:2015		
Frequency/Radiated Power e.i.r.p (W)		
2.4-2.4835GHz / 19.77dBm 5.15-5.35GHz / 22.86dBm	**5.47-5.725GHz / 26.1dBm**	
Test Report Numbers		
2012RSU071-A1 2012RSU071-E1, 2012RSU071-E2, 2012RSU071-E3, 2012RSU071-E4		
Radcomms Compliance Level	Required Marking	
A1	**R-NZ**	

I hereby declare that the product to which this Declaration of conformity relates complies with the above-mentioned standard(s), and all products supplied under this Declaration will be identical to the sample identified in this Declaration.

Gordon Slimmon
Director
30 March 2021

CERTIFICATE OF CONFORMITY

Type Approval Code: RBDV/23B/0723/S(23-3276)

Application Number: SQASI/TA/23/3276

This certificate is granted to

ABB MALAYSIA SDN BHD

LOT 608 JALAN SS13/1K , 47300, SUBANG JAYA, SELANGOR DARUL EHSAN

It is hereby certified that

MODEL: X2000

MARKETING NAME: Cassia Bluetooth Router

BRAND: CASSIA

For device category

WIRELESS GATEWAY

Product Features:

WLAN [802.11b/g/n: 2400 MHz - 2483.5 MHz, 802.11a/n/ac: 5150 MHz - 5350 MHz, 5470 MHz - 5650 MHz, 5725 MHz - 5875 MHz]

Bluetooth [2400 MHz - 2483.5 MHz]

Approval Date: 17 July 2023 **Expiry Date**: 16 July 2028

Certification of Communication, Multimedia and Hybrid Equipment (Equipment) means the certified product has met the requirements of the standards specified in this certificate. The certification of the equipment does not in itself confer a right on the certificate holder to operate the equipment.

Certificate Number: 170155

NUR FADHILAH BINTI MUHAMMAD
Chief Executive Officer
SIRIM QAS International

STANDARDS MALAYSIA ACCREDITED
ACB 001

CERTIFICATE OF CONFORMITY

Type Approval Code: RBDV/23B/0723/S(23-3276)

Application Number: SQASI/TA/23/3276

MODEL: X2000

MARKETING NAME: Cassia Bluetooth Router

BRAND: CASSIA

Complies to

TECHNICAL CODE

MCMC MTSFB TC T007:2020

Approval Date: 17 July 2023 **Expiry Date**: 16 July 2028

Certification of Communication, Multimedia and Hybrid Equipment (Equipment) means the certified product has met the requirements of the standards specified in this certificate. The certification of the equipment does not in itself confer a right on the certificate holder to operate the equipment.

Certificate Number: 170155

NUR FADHILAH BINTI MUHAMMAD
Chief Executive Officer
SIRIM QAS International

STANDARDS MALAYSIA ACCREDITED
ACB 001

Verification of Conformity

Council Directive 2014/53/EU RED

Date of Issue: 2023-06-21 Reference Number: VOCDG230613001

Applicant:	CASSIA NETWORKS INC. 97 E. Brokaw Road, Suite 130 San Jose, CA 95112 USA
Manufacturer:	CASSIA NETWORKS INC. 97 E. Brokaw Road, Suite 130 San Jose, CA 95112 USA
Product:	Cassia Bluetooth Router
Models:	X2000
Brand:	CASSIA
NTRA Category	CAT 4 + CAT 10
Brand & Model of Charger:	N/A
Brand & Model of Battery:	N/A

Article	Harmonized Standard	Test Report No.	Laboratory
Radio **RED Article3.2**	ETSI EN 300 328 V2.2.2 (2019-07) ETSI EN 301 893 V2.1.1 (2017-05) ETSI EN 300 440 V2.2.1 (2018-07)	SSH1230512-25914E-22A SSH1230512-25914E-22B SSH1230512-25914E-22D SSH1230512-25914E-22C SSH1230512-25914E-22E	Bay Area Compliance Laboratories Corp. (Dongguan)
EMC **RED Article3.1(b)**	EN 55032:2015+A11:2020+A1:2020 EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019+A1:2021 EN61000-3-3:2013+A1:2019+A2:2021 ETSI EN 301 489-1 V2.2.3 (2019-11) ETSI EN 301 489-3 V2.3.2 (2023-01) ETSI EN 301 489-17 V3.2.4 (2020-09)	SSH1230512-25914E-01 SSH1230512-25914E-02	Bay Area Compliance Laboratories Corp. (Dongguan)
Safety **RED Article3.1(a)**	EN IEC 62368-1:2020+A11:2020	SSH1230512-25914E-SF	Bay Area Compliance Laboratories Corp. (Dongguan)
Health **RED Article3.1(a)**	EN 50665:2017 EN IEC 62311:2020	SSH1230512-25914E	Bay Area Compliance Laboratories Corp. (Dongguan)

This EU-Type Examination Certificate is issued in according with Annex Ⅲ, Module B of Council Directive 2014/53/EU of April,2014.

On the basis of the reference test report(s), the sample(s) of the above product has been found to comply with the relevant standard(s) to NTRA approval listed on this verification at the time the tests were carried out and submitted document(s) were evaluated. The manufacturer may indicate compliance to said technical requirements of the NTRA approval. In addition, the manufacturer shall file and keep the documentation according to the rules of the applicable requirement(s) and shall consider changes of the standard(s) if relevant. Additional requirements may be applicable such as additional local laws.

Ivan Cao -Technical Manager

Bay Area Compliance Laboratories Corp. (Dongguan)
No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China
Phone: +86-769-86858888 Fax: +86-769-86858891

APPENDIX OF THE VERIFICATION OF CONFORMITY

Product Characteristics

Reference Number: VOCDG230613001

Main Product Specifications	CPU Model & Speed: 4 core ARM Cortex-A5,up to 1.5GHz
	Internal Memory (ROM): 4GB
	RAM Capacity: 1GB
	Battery Specification: N/A
Product Operating System &Version	N/A
Frequency Range	TX Frequency: BLE: 2402-2480MHz 2.4G Wi-Fi: 2412-2472MHz 5G Wi-Fi:5150-5250 MHz, 5250-5350MHz, 5470-5725 MHz,5725-5850MHz
	RX Frequency: BLE: 2402-2480MHz 2.4G Wi-Fi: 2412-2472MHz 5G Wi-Fi:5150-5250 MHz, 5250-5350MHz, 5470-5725 MHz,5725-5850MHz
Modulation	BLE: GFSK 2.4G Wi-Fi: OFDM,DSSS 5G Wi-Fi: OFDM

****End of Appendix****

Federative Republic of Brazil
Telecommunications National Agency

Certificate of Equipment Authorization

(Not Transferable)

Nº **13481-21-12464**

Expires: **Indeterminada**

Date of Certificate: **17/08/2023**

Applicant:
CNPJ: 25.081.009/0001-03
E3TECH ENGENHARIA E REPRESENTACOES LTDA

Manufacturer:
CASSIA NETWORKS INC
1840 MAJESTIC WAY, CA 95132
Nº

ESTADOS UNIDOS DA AMÉRICA

This document approves, in accordance with the Telecommunication Rules and Regulations, the Certificate of Conformity number CPQD 9905, issued by **FUNDACAO CENTRO DE PESQUISA E DESENVOLVIMENTO DE TELECOMUNICACOES- CPQD.**. This approval is issued on behalf of the applicant here identified and is valid only for the product described below for use under the Anatels Rules and Regulations.

Type - Category:
Transceptor de Radiação Restrita - II

Model - Comercial Name (s)
X2000

Basic technical characteristics:

Faixa de Frequências Tx (MHz)	Potência Máxima de Saída (W)	Tipo de Modulação	Designação de Emissões	Tecnologias
2.400,0 a 2.483,5	0,0062	GFSK	1M16F7W	SEQÜÊNCIA DIRETA
2.400,0 a 2.483,5	0,0005	GFSK	1M09F7W	SEQÜÊNCIA DIRETA
2.400,0 a 2.483,5	0,0062	GFSK	1M16F7W	SEQÜÊNCIA DIRETA
2.400,0 a 2.483,5	0,0064	GFSK	1M29F7W	SEQÜÊNCIA DIRETA
2.400,0 a 2.483,5	0,0093	GFSK	1M17F7W	SEQÜÊNCIA DIRETA
2.400,0 a 2.483,5	0,0001	GFSK	1M16F7W	SEQÜÊNCIA DIRETA
2.400,0 a 2.483,5	0,0001	GFSK	1M19F7W	SEQÜÊNCIA DIRETA
2.400,0 a 2.483,5	0,0003	GFSK	1M13F7W	SEQÜÊNCIA DIRETA
2.400,0 a 2.483,5	0,0885	DBPSK-QPSK-CCK	8M76G7W	SEQÜÊNCIA DIRETA
2.400,0 a 2.483,5	0,0587	BPSK-PSK-16QAM-64QAM	16M3D7W	OFDM
2.400,0 a 2.483,5	0,057	BPSK–QPSK-16QAM–64QAM	17M6D7W	OFDM
2.400,0 a 2.483,5	0,0595	BPSK-QPSK-16QAM–64QAM	35M7D7W	OFDM
5.725,0 a 5.850,0	0,0195	BPSK–QPSK-16QAM–64QAM	16M4D7W	SEQÜÊNCIA DIRETA
5.725,0 a 5.850,0	0,0244	BPSK–QPSK-16QAM-64QAM	17M6D7W	OFDM
5.725,0 a 5.850,0	0,0249	BPSK–QPSK-16QAM–64QAM	36M5D7W	OFDM
5.725,0 a 5.850,0	0,0244	BPSK–QPSK-16QAM–4QAM-256QAM	17M6D7W	OFDM
5.725,0 a 5.850,0	0,0249	BPSK–QPS-16QAM–4QAM-256QAM	36M5D7W	OFDM
5.725,0 a 5.850,0	0,0125	BPSK–QPSK-16QAM–4QAM-256QAM	76M4D7W	OFDM

Faixa de Frequências Tx (MHz)	Potência Máxima de Saída (W)	Tipo de Modulação	Designação de Emissões	Tecnologias
5.470,0 a 5.725,0	0,0235	BPSK–QPSK-16QAM-64QAM	-	OFDM
5.470,0 a 5.725,0	0,0232	BPSK–QPSK-16QAM–64QAM	-	OFDM
5.470,0 a 5.725,0	0,0224	BPSK–QPSK-16QAM-64QAM	-	OFDM
5.470,0 a 5.725,0	0,0232	BPSK-QPSK-16QAM-64QAM-256QAM	-	OFDM
5.470,0 a 5.725,0	0,0224	BPSK-QPSK-16QAM-64QAM-256QAM	-	OFDM
5.470,0 a 5.725,0	0,0185	BPSK-QPSK-16QAM-4QAM-256QAM	-	OFDM

Ensaios de SAR não aplicáveis.

Comments

Na instalação do produto devem ser observadas as condições de uso conforme estabelecido no Regulamento sobre Equipamentos de Radiocomunicação de Radiação Restrita.

This certificate replaces the certificate of the same number issued in 06/10/2021

Constitutes an obligation of the manufacturer or supplier of the product in Brazil to identify all approved products with Anatel's mark before its distribution to the market, as well as observe and maintain the technical characteristics which motivated the original certification.

The information in this Approval Certificate can be confirmed in the Certification and Approval Management System - SCH, available on Anatel's website. (www.anatel.gov.br).

Davison Gonzaga da Silva
Gerente de Certificação e Numeração

República Federativa do Brasil
Agência Nacional de Telecomunicações

Certificado de Homologação

(Intransferível)

Nº **13481-21-12464**

Validade: **Indeterminada**

Emissão: **17/08/2023**

Requerente:
CNPJ: 25.081.009/0001-03
E3TECH ENGENHARIA E REPRESENTACOES LTDA

Fabricante:
CASSIA NETWORKS INC
1840 MAJESTIC WAY, CA 95132
Nº

ESTADOS UNIDOS DA AMÉRICA

Este documento homologa, nos termos da regulamentação de telecomunicações vigente, o Certificado de Conformidade nº CPQD 9905, emitido pelo **FUNDACAO CENTRO DE PESQUISA E DESENVOLVIMENTO DE TELECOMUNICACOES- CPQD.**. Esta homologação é expedida em nome do solicitante aqui identificado e é válida somente para o produto a seguir discriminado, cuja utilização deve observar as condições estabelecidas na regulamentação de telecomunicações.

Tipo - Categoria:
Transceptor de Radiação Restrita - II

Modelo - Nome Comercial (s):
X2000

Características técnicas básicas:

Faixa de Frequências Tx (MHz)	Tecnologias	Potência Máxima de Saída (W)	Tipo de Modulação	Designação de Emissões
2.400,0 a 2.483,5	SEQÜÊNCIA DIRETA	0,0062	GFSK	1M16F7W
2.400,0 a 2.483,5	SEQÜÊNCIA DIRETA	0,0005	GFSK	1M09F7W
2.400,0 a 2.483,5	SEQÜÊNCIA DIRETA	0,0062	GFSK	1M16F7W
2.400,0 a 2.483,5	SEQÜÊNCIA DIRETA	0,0064	GFSK	1M29F7W
2.400,0 a 2.483,5	SEQÜÊNCIA DIRETA	0,0093	GFSK	1M17F7W
2.400,0 a 2.483,5	SEQÜÊNCIA DIRETA	0,0001	GFSK	1M16F7W
2.400,0 a 2.483,5	SEQÜÊNCIA DIRETA	0,0001	GFSK	1M19F7W
2.400,0 a 2.483,5	SEQÜÊNCIA DIRETA	0,0003	GFSK	1M13F7W
2.400,0 a 2.483,5	SEQÜÊNCIA DIRETA	0,0885	DBPSK-QPSK-CCK	8M76G7W
2.400,0 a 2.483,5	OFDM	0,0587	BPSK-PSK-16QAM-64QAM	16M3D7W
2.400,0 a 2.483,5	OFDM	0,057	BPSK–QPSK-16QAM–64QAM	17M6D7W
2.400,0 a 2.483,5	OFDM	0,0595	BPSK-QPSK-16QAM–64QAM	35M7D7W
5.725,0 a 5.850,0	SEQÜÊNCIA DIRETA	0,0195	BPSK–QPSK-16QAM–64QAM	16M4D7W
5.725,0 a 5.850,0	OFDM	0,0244	BPSK–QPSK-16QAM-64QAM	17M6D7W
5.725,0 a 5.850,0	OFDM	0,0249	BPSK–QPSK-16QAM–64QAM	36M5D7W
5.725,0 a 5.850,0	OFDM	0,0244	BPSK–QPSK-16QAM–4QAM-256QAM	17M6D7W
5.725,0 a 5.850,0	OFDM	0,0249	BPSK–QPS-16QAM–4QAM-256QAM	36M5D7W

Faixa de Frequências Tx (MHz)	Tecnologias	Potência Máxima de Saída (W)	Tipo de Modulação	Designação de Emissões
5.725,0 a 5.850,0	OFDM	0,0125	BPSK–QPSK-16QAM–4QAM-256QAM	76M4D7W
5.470,0 a 5.725,0	OFDM	0,0235	BPSK–QPSK-16QAM-64QAM	-
5.470,0 a 5.725,0	OFDM	0,0232	BPSK–QPSK-16QAM–64QAM	-
5.470,0 a 5.725,0	OFDM	0,0224	BPSK–QPSK-16QAM-64QAM	-
5.470,0 a 5.725,0	OFDM	0,0232	BPSK-QPSK-16QAM-64QAM-256QAM	-
5.470,0 a 5.725,0	OFDM	0,0224	BPSK-QPSK-16QAM-64QAM-256QAM	-
5.470,0 a 5.725,0	OFDM	0,0185	BPSK-QPSK-16QAM-4QAM-256QAM	-

Ensaios de SAR não aplicáveis.

Observações

Na instalação do produto devem ser observadas as condições de uso conforme estabelecido no Regulamento sobre Equipamentos de Radiocomunicação de Radiação Restrita.

Este certificado substitui o de mesmo número emitido em 06/10/2021

Constitui obrigação do fabricante do produto no Brasil providenciar a identificação do produto homologado, nos termos da regulamentação de telecomunicações, em todas as unidades comercializadas, antes de sua efetiva distribuição ao mercado, assim como observar e manter as características técnicas que fundamentaram a certificação original.

As informações constantes deste certificado de homologação podem ser confirmadas no SCH - Sistema de Gestão de Certificação e Homologação, disponível no portal da Anatel. (www.anatel.gov.br).

Davison Gonzaga da Silva
Gerente de Certificação e Numeração

Project Details

Project Name	Cassia Bluetooth Router
Product Type	Host Subsystem
TCRL Version:	TCRL 2020-1
Referenced Qualified Design(s)	150092
Previously Qualified Design Used in this Qualification(s)	
Listing Date	2021-08-02
Declaration ID	D056201

Product Listing(s)

Name	Website	Category	Publish Date	Model Number	Description
Cassia Bluetooth Router	www.cassianetworks.com	Unique Products	8/3/2021 12:00:00 AM	ATX2000-CN	The Cassia Networks ATX2000-CN is a long-range Bluetooth gateway optimized for industrial IoT hazardous areas. It is mainly used in China market.
Cassia Bluetooth Router	www.cassianetworks.com	Unique Products	8/3/2021 12:00:00 AM	ATX2000	The Cassia Networks ATX2000 is a long-range Bluetooth gateway optimized for industrial IoT hazardous areas. It features an IP66 and NEMA 4 rated ruggedized enclosure uniquely designed for Zone 2, 22 and Division 2 hazardous areas.
Cassia Bluetooth Router	www.cassianetworks.com	Unique Products	8/4/2021 12:00:00 AM	X2000-10	The Cassia Networks X2000 is a long-range Bluetooth router optimized for industry IoT. It has ruggedized enclosure, integrated TPM chip, more power/Wi-Fi/antenna options, bigger RAM and other IIoT targeted enhancements. X2000 supports Bluetooth Low Energy 5.0. It extends Bluetooth's range up to 1 kilometer and enables remote control of up to 40 Bluetooth Low energy devices (and hundreds in broadcast mode) without requiring changes to end devices. The X2000 acts as an Internet Gateway in conjunction with Cassia's IoT Access Controller (AC) for easy deployment and management.
Cassia Bluetooth Router	www.cassianetworks.com	Unique Products	8/4/2021 12:00:00 AM	X2000	The Cassia Networks X2000 is a long-range Bluetooth router optimized for industry IoT. It has ruggedized enclosure, integrated TPM chip, more power/Wi-Fi/antenna options, bigger RAM and other IIoT targeted enhancements. X2000 supports Bluetooth Low Energy 5.0. It extends Bluetooth's range up to 1 kilometer and enables remote control of up to 40 Bluetooth Low energy devices (and hundreds in broadcast mode) without requiring changes to end devices. The X2000 acts as an Internet Gateway in conjunction with Cassia's IoT Access Controller (AC) for easy deployment and management.
Cassia Bluetooth Router	www.cassianetworks.com	Unique Products	8/4/2021 12:00:00 AM	X2000-20	The Cassia Networks X2000 is a long-range Bluetooth router optimized for industry IoT. It has ruggedized enclosure, integrated TPM chip, more power/Wi-Fi/antenna options, bigger RAM and other IIoT targeted enhancements. X2000 supports Bluetooth Low Energy 5.0. It extends Bluetooth's range up to 1 kilometer and enables remote control of up to 40 Bluetooth Low energy devices (and hundreds in broadcast mode) without requiring changes to end devices. The X2000 acts as an Internet Gateway in conjunction with Cassia's IoT Access Controller (AC) for easy deployment and management.

Member Company	Cassia Networks Inc.

Declaring Member Contact / Listing Contact Person

Name	Van Krueger
Address	97 E Brokaw Road Suite 130
City	San Jose
State	California
Country	United States
Postal Code	95112

符合性聲明書

報驗義務人代碼 Code of the applicant	編號 Number
D33724	

Declaration of Conformity

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：亞勗科技有限公司
Obligatory Applicant

地址：23557 新北市中和區中山路二段 446 號 3 樓
Address

電話：+886.2.2223.9689
Telephone

商品中（英）文名稱：藍牙路由器/Cassia Bluetooth Router
Commodity Name

商品型式（或型號）：X2000
Commodity Type （Model）

商品系列型式（或型號）：X2000-10,X2000-20
Commodity Series of Type （Model）

符合之檢驗標準及版次：CNS 13438 乙類資訊技術設備(95 年完整版)；CNS14336-1：(99 年版)；CNS 15663 第 5 節「含有標示」(102 年)
Standard(s) and version

試驗報告編號：M220117N3；ASL-21-TJ037
Test Report Number

試驗室名稱及代號：Electro Magnetic Test, Inc. (SL2-IN-E-1024)；亞勗認證服務有限公司(SL2-IN-T-0149)
Testing laboratory name and designation number

符合性聲明檢驗標識及識別號碼：
The form of the DoC marking appears like this

D33724
RoHS

或
or

D33724
RoHS

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所聲明之內容，願意擔負相關法律責任。
I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：亞勗科技有限公司　鄧 正 光　(簽章)
Obligatory Applicant　(Signature)

日　期　2022　年　01　月　25 日
(DATE)　(year)　(month)　(day)

TEST REPORT

Applicant	:	Cassia Networks Inc.
Applicant Address	:	1840 Majestic Way, San Jose, CA 95132
Manufacturer	:	Cassia Networks Inc.
Manufacturer Address	:	1840 Majestic Way, San Jose, CA 95132
Sample Name	:	Cassia Bluetooth Router
Model No.	:	X2000
Reference Model No.	:	X2000-10, X2000-20
Brand	:	N/A
Date of Receipt sample	:	Feb.07, 2021
Testing Period	:	Feb.07, 2021 to Feb.22, 2021
Date of Issue	:	Feb.24, 2021
Test Requested	:	According to European Commission Regulation 1907/2006 (REACH Act), to determine the two hundred and eleven (211) Substances of Very High Concern (SVHC) which have been listed in ECHA's website: https://echa.europa.eu/candidate-list-table
Test Method	:	In-house method with reference to EPA 3550C:2007, US EPA 8270D:2014, US EPA 3052:1996, US EPA3050B:1996, US EPA 6010D:2018, BS EN ISO 14362-1:2017, BS EN ISO 14362-3:2017, ISO 17234-1:2015, ISO/DIS 17234-2:2011, ISO 17353:2004 , AfPS GS 2019:01 PAK.
Test Conclusion	:	According to the specified scope and analytical technique, the concentrations of the 211 Substances of SVHC are less than 0.1% in the submitted samples.

******FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ******

Signed for and on behalf of

Waltek Testing Group (Shenzhen) Co., Ltd.
Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China
Tel:+86-755-33663308 Fax:+86-755-33663309 E-mail:sem@waltek.com.cn

Tested by:	Reviewed by:	Approved by:
Charles Wang	Eric Lu	Hugo Chen

无线电发射设备
Radio Transmission Equipment
型号核准证
Type Approval Certificate

北京桂花网科技有限公司：

根据《中华人民共和国无线电管理
In accordance with the provisions on the Radio

条例》，经审查，下列无线电发射设备
Regulations of the People's Republic of China , the following

符合中华人民共和国无线电管理规定和
radio transmission equipment , after examination , conforms

技术标准，其核准代码为：CMIIT ID:2021AP1981
to the provisions with its CMIIT ID:

中华人民共和国工业和信息化部
（发证机关）

有效期：五年
Validity

Sealed by issuing authority

2021 年 03 月 01 日
Year Month Date

编号：2021-1981
Number

设备名称：5.8GHz/2.4GHz无线局域网/蓝牙设备
Equipment Name

设备型号：X2000-C
Equipment Type

主要功能：数据传输
Main Functions

调制方式：BPSK/QPSK/16QAM/64QAM/256QAM/DBPSK/DQPSK/CCK GFSK
Modulation Mode

主要技术参数及其指标值：
Main Technical Parameters

频率范围：5725-5850MHz 2400-2483.5MHz
Frequency Range

频率容限：≤20ppm
Frequency Tolerance

发射功率：≤33dBm(EIRP) ≤20dBm(EIRP)
Transmitting Power

占用带宽：≤80MHz ≤40MHz ≤3MHz
Occupied Bandwidth

杂散发射限值：≤-30dBm
Spurious Emission Limits

（核发单位章）
Sealed by issuing authority

2021 年 03 月 01 日
Year Month Date

Digitally signed by MARIANA SARMIENTO ARGUELLO
Date: 2021.07.29 15:08:11 -05:00
Reason: Fiel Copia del Original
Location: Colombia

CRC
Radicación: 2021514419
Fecha: 29/07/2021 2:37:37 P. M.
Proceso: 4000 RELACIONAMIENTO CON AGENTES

Rad. 2021808842
Cod. 4000
Bogotá D.C.

Señora:
VIVIAN ZAPATA
International type approval
ITC-INTELIGENT
Email: vivian@itc-inteligent.com.br

REF. Consulta de pertinencia de homologación del equipo terminal marca CASSIA modelo X2000 fabricado por CASSIA NETWORKS INC.

Respetada Señora Vivian,

La Comisión de Regulación de Comunicaciones (CRC) recibió su comunicación con radicado 2021808842, mediante la cual consulta sobre la pertinencia de homologación del equipo terminal **CASSIA**, modelo **X2000**, fabricado por la empresa **CASSIA NETWORKS INC.**

Inicialmente le informamos que la Sección I del Capítulo I del Título VII de la Resolución CRC 5050 de 2016, por la cual se compilan las Resoluciones de Carácter General vigentes expedidas por la Comisión de Regulación de Comunicaciones, establece las condiciones generales de homologación de equipos terminales y certificados de conformidad. En la citada normativa se determina que los equipos terminales sujetos al proceso de homologación son los Equipos Terminales Móviles - ETM.

De acuerdo con la Tabla 1 'Normas Técnicas', contenida en la Sección I del Capítulo I del Título VII de la Resolución CRC 5050 de 2016, **todo Equipo Terminal Móvil** que opere en las bandas de 850MHz, 1900 MHz, [AWS] 1700/2100 MHz, y/o 2500 MHz, **deberá ser homologado** para poder ser comercializado y activado en las redes del país, independientemente de si hace uso de esas redes para la prestación de servicios de comunicaciones de voz y/o datos, lo anterior, en virtud de la definición de ETM establecida en la Resolución CRC 5050 de 2016, la cual se cita a continuación:

> ***Equipo Terminal Móvil (ETM):*** *Dispositivo que posea un IMEI (Identificador Internacional de Equipo Móvil), por sus siglas en inglés, o aquel identificador que cumpla una función equivalente a éste, y por medio del cual se accede a las redes de telecomunicaciones móviles para la prestación de servicios de comunicaciones de voz y/o datos.*

No obstante lo anterior, el Artículo 1 de la Resolución CRC 5300 de 2018 condicionó la entrada en vigencia de los estándares técnicos asociados a las bandas AWS (1700/2100 MHz) y 2500 MHz en la Tabla 1 'Normas Técnicas', a la expedición y entrada en vigencia de la normatividad que surja como resultado del proyecto regulatorio 'Revisión del régimen de homologación de equipos terminales', que se encuentra en desarrollo, razón por la cual los Equipos Terminales que no hagan

uso de las redes móviles bajo los estándares técnicos actualmente exigibles, no requerirán surtir el trámite de homologación para su activación de acuerdo con la normatividad vigente.

Para el caso, de acuerdo con la información remitida en su solicitud, se identifica que el equipo terminal marca **CASSIA**, modelo **X2000**, fabricado por **CASSIA NETWORKS INC.**, actualmente no requiere surtir el trámite de homologación ante la CRC, en atención a las disposiciones previstas en las Resoluciones CRC 5162 de 2017 y CRC 5300 de 2018. En consecuencia, los terminales asociados a la marca y modelo de la referencia, no requieren adelantar el referido trámite para la obtención del respectivo 'Certificado de Homologación'.

En los anteriores términos damos respuesta a su consulta y quedamos atentos a cualquier aclaración adicional que requiera.

Cordial Saludo,

MARIANA SARMIENTO ARGÜELLO
Coordinadora de Relacionamiento con Agentes

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