



EarGear

INSTRUCTIONS



Quick Start!

» Charge up EarGear. Connect the charger by holding the ear in one hand, like the image on the right. This will prevent putting too much pressure on the ear. This is the best way to press the power button to switch it on and off too. Don't hold the band, hold the ear!



» 30 minutes of charge will get you mostly charged up.

» Add the EarGear covers to the ears. There is a little patch of velcro on the front and back of the ears that will stick to the insides of the ear covers , holding them in place . White dots are on the front face of EarGear.



» Download the app from the app store.
Search for “The Tail Company” or scan this QR code:

» EarGear switches on or off by pressing the power button for 3 seconds. It is the round button above the USB socket.



Connect to the app

» Run the app! Agree to all the permissions it requires. Search for your gear. After a short while, it should find them. Click “Connect to EarGear”, and you are ready to go! The app lets you do more with EarGear, so explore all the options.

» **Don't “pair” your ears like Headphones!** Just use the app to search and connect.

» When EarGear is running low on batteries, the app's battery gauge will flash.
Time to charge!

» To switch off EarGear, press the power button for about 4 seconds.

» **Important:** EarGear is not a toy and is not intended for children under 14 years of age.

FAQ

- If your phone can't find EarGear, make sure the ears are on, and they have been charged! Also make sure Bluetooth is ON and location permissions are enabled on your phone. You don't need to "Pair" it. Just run the app and follow the instructions there.
- Tilts are designed to work when the band is on your head.
- Is the band a little tight or loose? Visit our [Tutorials section](#) on our website for a video guide.
- For all things EarGear, including chatting with other cosplayers from around the world, visit our Telegram group. We also discuss new features and new gear that we are working on there too!
- All our tails and ears, as well as our apps, get updated regularly. Please make sure you check for new firmware in the settings part of the app to get all the latest features.

Customize them!



Want some new covers for EarGear? We can hand make custom covers for you, just how you like them. [Visit our site](#) and let us know what you would like!

MiTails is our amazing cosplay tail that syncs perfectly with EarGear! Our website has all the details [here](#)



Disclaimer

Please read the instructions for use above in full before using your Tail Company Gear. Not familiarising yourself with the proper method of use could cause damage to the gear, or to yourself, or both. This text is also subject to change. An up-to-date version will form part of the file available at <https://thetailcompany.com/eargear.pdf> or <https://thetailcompany.com/mitail.pdf>

Support is also available on our website, through the chat service, or on our Telegram group. By using this item, you hereby acknowledge that you have read this disclaimer and that you understand and agree to abide by the terms and conditions herein.

The Mechanical Tail Company Ltd accepts no liability for damage, injury or legal responsibility incurred directly or indirectly from the use of this product. This product is not a toy, and should not be used by children under the age of thirteen years without supervision by an adult.

Do not use the product if it appears damaged in any way. Safety Handle your EarGear or MiTail with care. They can be damaged, functionally impaired or broken if dropped, burned, punctured, crushed, disassembled or if exposed to liquid, excessive heat or other environmental conditions. EarGear and MiTail should be kept out of the reach of children and pets under 13 years of age when unsupervised.

Only use the supplied charging equipment for your Tail Company gear. Use of incorrect charging apparatus that does not meet international standards can cause fire, electric shock, injury or damage to you or the gear or other property. Do not charge EarGear or MiTail unattended.

If at any time the items give off an odour, exude smoke, or show other signs of damage, stop using the items immediately, and dispose of them in the correct manner.

Environmental Requirements

Operating temperature: -10 to 40 C / 14 to 104 F Charging temperature: 10 to 30 C / 50 to 86 F Storage temperature: 0 to 30 C / 32 to 86 F

Declaration of Conformity

This product incorporates FCC certified module FCC ID: 2AC7Z-ESPS3MINI1. This integration complies with all specified implementation requirements and does not modify the RF characteristics of the approved module.

Contains FCC ID: 2AC7Z-ESPS3MINI1

The Mechanical Tail Company Ltd

EarGear Cosplay Ears EG2

This device complies with Part 15 of the FCC Rules

TCB**GRANT OF EQUIPMENT
AUTHORIZATION****TCB****Certification****Issued Under the Authority of the
Federal Communications Commission****By:****Nemko North America, INC.
303 River Road
Ottawa, Ontario, K1V 1H2
Canada****Date of Grant: 02/28/2022****Application Dated: 02/27/2022****ESPRESSIF SYSTEMS (SHANGHAI) CO., LTD****Suite 204, Block 2, 690 Bibo Road,****Zhang Jiang Hi-Tech Park,****Shanghai, 201203****China****Attention: Mia Zhou****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: 2AC7Z-ESPS3MINI1
Name of Grantee: ESPRESSIF SYSTEMS (SHANGHAI)
CO., LTD
Equipment Class: Digital Transmission System
Notes: 2.4GHz Wi-Fi & BT IoT Module
Modular Type: Single Modular

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	15C	2402.0 - 2480.0	0.0107		
	15C	2412.0 - 2462.0	0.3365		

Single Modular Approval. Power output listed is conducted. This module has 20 MHz and 40 MHz bandwidth mode. The module grantee is responsible for providing the documentation to the system integrator on restrictions of use, for continuing compliance of the module. The integrator installing this module into their product must ensure that the final composite product complies with the FCC requirements by a technical assessment or evaluation to the FCC rules, including the transmitter operation and should refer to guidance in KDB 996369. Separate approval is required for all other operating configurations, including portable configurations with respect to 2.1093 and different antenna configurations.

Technical Implementation

The ESP32-MINI-1 module (FCC ID: 2AC7Z-ESPS3MINI1) is integrated into our electronic cosplay ear product using a straightforward implementation approach that maintains the module's certified configuration. The module is mounted on a custom printed circuit board (PCB) housed within one of the costume ears. This PCB provides basic power management and connectivity functions while preserving all RF characteristics of the certified module.

The implementation architecture consists of:

1. The ESP32-MINI-1 module mounted directly to the PCB using the manufacturer's recommended soldering specifications
2. Power delivery via a rechargeable lithium battery with standard protection circuitry
3. Supporting components limited to basic power regulation and LED control circuitry
4. Original antenna configuration maintained without modification
5. RF shielding preserved as per the module's original certification

The enclosure design, constructed of standard costume-grade materials, maintains appropriate spacing from the module's antenna and does not introduce any modifications to the RF characteristics. All ground planes and clearance zones specified in the module's integration guidelines are strictly observed in the PCB layout.

Product Classification and Intended Use

This electronic costume accessory is designed and marketed for adult and teen cosplay enthusiasts. The product is not a toy and is not intended for children under 14 years of age. The device contains small electronic components, a lithium battery, and requires mature judgment for proper use and charging procedures.

WARNING: This is not a toy. Not intended for children under 14 years of age. Contains small parts and a lithium battery.

Please make sure you read the User Manual before usage. The latest manual can always be found at <https://thetailcompany.com/eargear.pdf>

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CERTIFICADO DE EXAMEN UE DE TIPO EU-TYPE EXAMINATION CERTIFICATE



No. **0370-RED-4972**

EMITIDO POR / ISSUED BY	LGAI TECHNOLOGICAL CENTER - No. 0370 (APPLUS)	
SOLICITANTE / APPLICANT	Espressif Systems (Shanghai) Co.,Ltd.	
FABRICANTE (Nombre, Dirección) MANUFACTURER (Name, Address)	Espressif Systems (Shanghai) Co.,Ltd. Suite 204, Block 2, 690 Bibo Road, Zhang Jiang Hi-Tech Park, Shanghai, China	
COMERCIALIZADO POR (marca) COMMERCIALISED BY (Brand)	ESPRESSIF	
PRODUCTO PRODUCT	Wi-Fi & Bluetooth Internet of Things Module	
TIPOS TYPES	ESP32-S3-MINI-1	
Versión HW / FMW HW / FMW version	SW: V1.1.3.0 HW: V1.1	
DIRECTIVA APLICABLE APPLICABLE DIRECTIVE	DIRECTIVA 2014/53/UE DEL PARLAMENTO EUROPEO Y DEL CONSEJO, DE 16 DE ABRIL DE 2014, RELATIVA A LA ARMONIZACIÓN DE LAS LEGISLACIONES DE LOS ESTADOS MIEMBROS SOBRE LA COMERCIALIZACIÓN DE EQUIPOS RADIOELÉCTRICOS <i>DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 APRIL 2014 ON THE HARMONISATION OF THE LAWS OF THE MEMBER STATES RELATING TO THE MAKING AVAILABLE ON THE MARKET OF RADIO EQUIPMENT</i>	
DESCRIPCIÓN DESCRIPTION	The device is a Wi-Fi & Bluetooth Internet of Things Module with Wi-Fi 2.4GHz and Bluetooth.	
CUMPLE CON LOS REQUISITOS ESENCIALES MEET ESSENTIAL REQUIREMENTS	Art.3.1a Salud y Seguridad / Art.3.1a Health & Safety	<input checked="" type="checkbox"/> Art. 3.2 Uso eficiente del espectro radioeléctrico / Art.3.2 Efficient use of Radio spectrum
	Art.3.1b EMC / Art.3.1b EMC	<input checked="" type="checkbox"/> Art 3.3 Características especiales / Art.3.3 Special characteristics

Este documento carece de validez sin su anexo, cuyo número coincide con el del presente certificado. // This document is not valid without its technical annex, whose number coincides with the number of the certificate.

La evaluación de la documentación técnica entregada se encuentran recogidos en el expediente técnico número: 22/36400389
The evaluation of the technical documentation delivered is included in the technical file number: 22/36400389

Restricciones (si aplican) / Restrictions (if apply):

Bellaterra, 25 de febrero de 2022 // 25th February 2022



LGA Technological Center, S.A.

José Luis Medina
Director
Electrical & Electronics - Spain

Este Certificado es válido mientras no se produzcan cambios en el estado de la técnica que indiquen que el equipo radioeléctrico aprobado ya no puede cumplir los requisitos esenciales de la Directiva 2014/53/UE y no haya notificaciones en el tipo aprobado que puedan afectar a la conformidad con los requisitos esenciales de la Directiva 2014/53/UE
This Certificate is valid as long as there are no changes in the prior art indicating that the approved radio equipment can no longer meet the essential requirements of Directive 2014/53/EU and there are no notifications of the approved type that may affect the Accordance with the essential requirements of Directive 2014/53/EU

ANEXO TÉCNICO *TECHNICAL ANNEX*

0370-RED-4972

A. MODEL DESCRIPTION

A.1. GENERAL INFORMATION ON THE RADIO EQUIPMENT:

Manufacturing country: China
Brand: ESPRESSIF
Commercial designation: ESPRESSIF
Country of commercialization: European Union
Radio service: Wi-Fi 2.4GHz and Bluetooth
Application: Wi-Fi & Bluetooth Internet of Things Module

A.1.1 TRADE VERSIONS/VARIANTS: ESP32-S3-MINI-1

Close

A.2. FEATURES: Wi-Fi & Bluetooth Internet of Things Module

A.3. SOFTWARE VERSION(S): V1.1.3.0

A.4. HARDWARE VERSION(S): V1.1

A.5. OTHER COMPONENTS

- Disposable antenna YES ☐ NO ☒
 - o Antenna gain (dBi)*: dBi;

ANEXO TÉCNICO TECHNICAL ANNEX

0370-RED-4972

A.6. OPERATING FREQUENCIES AND MAXIMUM POWER EMITTED BY BAND

BAND	SERVICE	OPERATIONAL FREQUENCY (TX)	MAX POWER*	CNAF IR	CNAF/UN-XXX
Band 1	WiFi 2.4GHz	F_min: 2412MHz F_max: 2472MHz	19.97 dBm	IR-163	UN-85
Band 2	BLE	F_min: 2402MHz F_max: 2480MHz	9.96 dBm	IR-163	UN-85

N/A: Not applicable
N/D: Not defined

* Conducted power for mobile technologies and EIRP for other technologies.

A.7. OTHER PARAMETERS OF RADIO INTERFACE SPECIFICATIONS (RI)

Requires license/Use authorization: YES ☐ NO ☒

B. TEST PROTOCOL

REQUIREMENT	STANDARD	LABORATORY	Report no.
Health and Safety (Article 3.1a)	EN IEC 62368-1:2020+A11:2020	TA Technology (Shanghai) Co., Ltd.	R2112A1104-L1
	EN IEC 62311:2020		R2112A1104-M1
	EN 50665:2017		
EMC (Article 3.1b)	EN 55032:2015+A11:2020	TA Technology (Shanghai) Co., Ltd.	R2112A1104-E1
	EN 55035:2017+A11:2020		
	EN 301 489-1 V2.2.3		
	EN 301 489-17 V3.2.4		
Radio Aspects (Article 3.2)	EN 300 328 V2.2.2	TA Technology (Shanghai) Co., Ltd.	R2112A1104-R1V1

C. RESTRICTIONS

Restrictions: YES ☐ NO ☒

Describe restrictions: N/A

ANEXO TÉCNICO *TECHNICAL ANNEX*

0370-RED-4972

D. ACTIVITIES CARRIED OUT BY THE NB

Technical Documentation Review

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> Assembly drawings(s) | <input checked="" type="checkbox"/> Block diagram | <input checked="" type="checkbox"/> Circuit diagram/schematics |
| <input checked="" type="checkbox"/> External photographs | <input checked="" type="checkbox"/> Label drawing/location | <input checked="" type="checkbox"/> User manual |
| <input checked="" type="checkbox"/> Internal photographs | <input checked="" type="checkbox"/> Operational description | <input checked="" type="checkbox"/> Risk Assessment |
| <input checked="" type="checkbox"/> Test set-up photographs | <input checked="" type="checkbox"/> Test reports | <input checked="" type="checkbox"/> EU declaration of conformity |
| <input checked="" type="checkbox"/> Bill of materials | <input checked="" type="checkbox"/> PCB layout | |
| <input type="checkbox"/> Installation diagrams and explanations | <input checked="" type="checkbox"/> List of applied (harmonized and non-harmonized) standards | |

Other activities

- ☒ RIS
- ☒ EFIS/CNAF
- ☒ Review Technical Justifications
- ☒ Analysis report
- ☒ EU type certification issued

E. ADDITIONAL INFORMATION:

Radio Equipment Directive 2014/53/EU, Article 10.4: Manufacturers shall keep the technical documentation and the EU declaration of conformity for 10 years after the radio equipment has been placed on the market.

Radio Equipment Directive 2014/53/EU, Annex III, Module B.2: The manufacturer shall inform the notified body that holds the technical documentation relating to the EU-type examination certificate of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of this Directive or the conditions for validity of that certificate. Such modifications shall require additional approval in the form of an addition to the original EU-type examination certificate.

This review includes draft standards, deviations from the standards and technical justification for compliance.