

Questyle M18i

Questyle M18i Headphone Amplifier Bluetooth 5.4 Receiver User Manual

Model: M18i | Brand: Questyle

1. INTRODUCTION AND OVERVIEW

The Questyle M18i is a high-resolution portable USB DAC and headphone amplifier designed to enhance your audio experience across various devices. Featuring Bluetooth 5.4 connectivity, dual 4.4mm balanced and 3.5mm unbalanced outputs, and support for advanced codecs like LDAC, it delivers lossless audio quality for smartphones, PCs, and laptops. Its compact design integrates cutting-edge technology, including the ESS ES9219Q DAC chip and Questyle's patented Current Mode Amplifier SiP modules, ensuring exceptional sound performance with ultra-low distortion.



Figure 1.1: Questyle M18i Headphone Amplifier

2. KEY FEATURES

- **Advanced DAC Performance:** Equipped with the latest ESS flagship ES9219Q DAC chip, utilizing Questyle and ESS's collaborative TTA DAC framework for optimal performance.
- **Current Mode Amplification:** Features two patented quad-core Current Mode Amplifier SiP modules, providing powerful drive, delicate timbre, and an ultra-low distortion record of 0.0002%.
- **Versatile Outputs and Controls:** Offers both 3.5mm unbalanced and 4.4mm balanced outputs. Includes manual gain control for various headphones and an MFB button for Bluetooth functions. Volume buttons provide 60 levels of loudness.
- **Seamless Bluetooth and USB DAC Modes:** Supports seamless switching between lossless Bluetooth and USB DAC modes.
- **Qualcomm Snapdragon Sound Technology:** Integrates Qualcomm's latest Snapdragon Sound technology with Bluetooth 5.4, supporting AAC, SBC, aptX, aptX HD, aptX Adaptive, LE AUDIO, and 24bit/96kHz LDAC for wireless lossless audio.
- **Enhanced Call Quality:** Incorporates Qualcomm's cVc Generation 8.0 call solution with ClearVoice Capture technology and an Infineon flagship microphone for crystal-clear voice calls with noise suppression.

3. PACKAGE CONTENTS

Please ensure all items are present in the package:

- Questyle M18i Headphone Amplifier
- USB-C to USB-C Cable

4. PRODUCT DIAGRAM AND COMPONENTS

Familiarize yourself with the various parts and connections of your M18i device.



Figure 4.1: M18i Internal Components and PCB Layout

Key components include:

- **1. Patented SP Current Mode Amplifier module:** US 9,614,483 B2
- **2. ESS Flagship USB DAC:** ES9219Q x 2
- **3. 4.4mm balanced headphone jack**
- **4. Torex power management system**
- **5. Asynchronous Clock Patented Architecture**

- 6. USB Type-C Charging Port
- 7. Infineon's flagship microphone
- 8. USB Type-C Data Port
- 9. 3.5mm headphone jack
- 10. Gain/MFB button: (Multi-function button only for BT Mode)
- 11. Bluetooth & PC/Phone Mode Switch
- 12. XMOS USB DAC
- MCU Controller
- Qualcomm Bluetooth Module
- OLED Display



Figure 4.2: 4.4mm and 3.5mm Dual Outputs

5. SETUP

5.1 Initial Charging

Before first use, fully charge your M18i. Connect the provided USB-C cable to the M18i's USB Type-C Charging Port and the other end to a compatible USB power source (e.g., computer USB port, wall adapter). The charging time is approximately 2 hours.

5.2 Connecting Headphones

The M18i features both 3.5mm unbalanced and 4.4mm balanced headphone jacks. Insert your headphone cable into the appropriate jack. Ensure the connection is secure.

5.3 Device Connection

The M18i supports connection to various systems including Android, iOS, Windows, and Mac devices. Use the appropriate USB-C cable to connect the M18i to your smartphone, PC, tablet, or laptop.

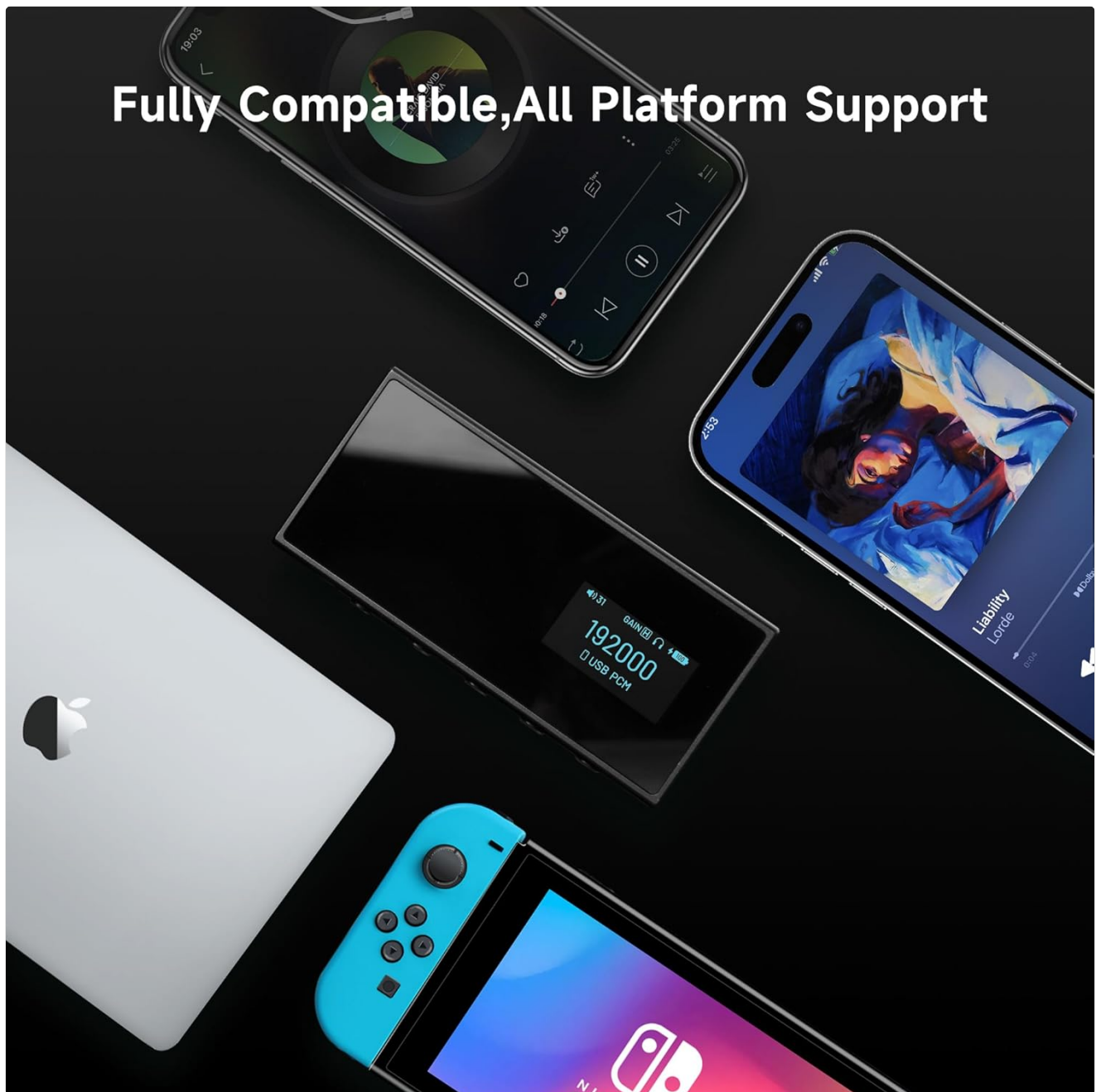


Figure 5.1: M18i Compatibility with Various Platforms

6. OPERATING INSTRUCTIONS

6.1 Mode Selection (Bluetooth / PC / Phone)

Use the dedicated switch on the M18i to select between Bluetooth, PC, or Phone mode.

6.1.1 Phone Mode

In Phone Mode, the M18i operates using its internal battery for power. The USB audio port is solely for data transfer and does not draw or supply power to the connected phone.

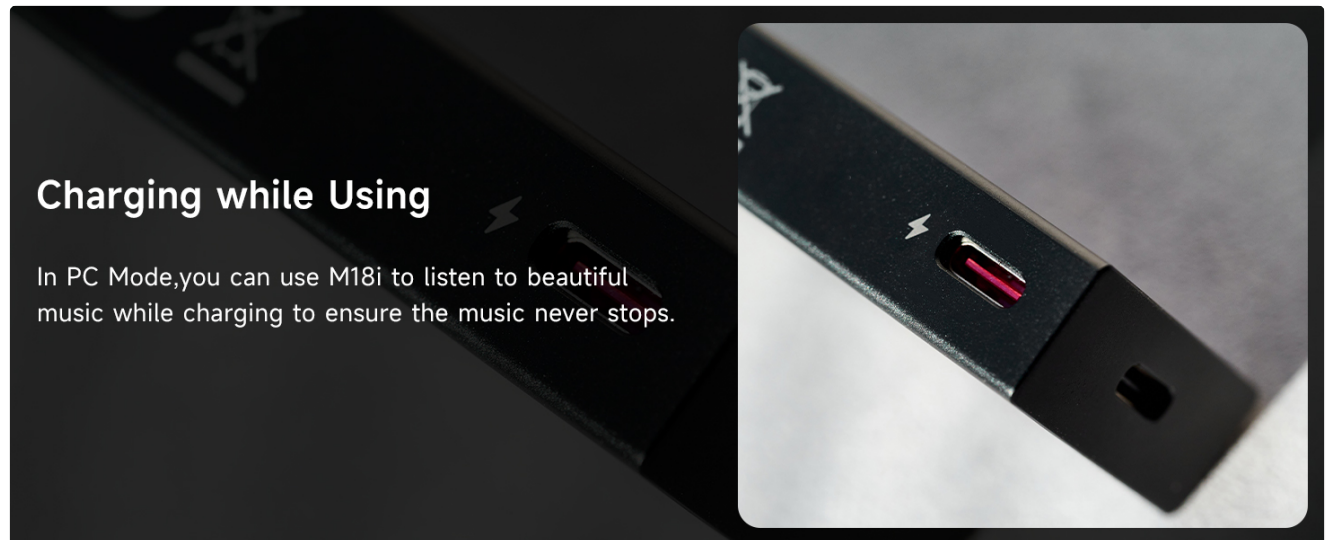


Figure 6.1: M18i in Phone Mode

6.1.2 Bluetooth Mode

In Bluetooth Mode, the M18i also relies exclusively on its battery for power supply. To pair, switch to Bluetooth mode, then search for 'Questyle M18i' on your device's Bluetooth settings and connect.

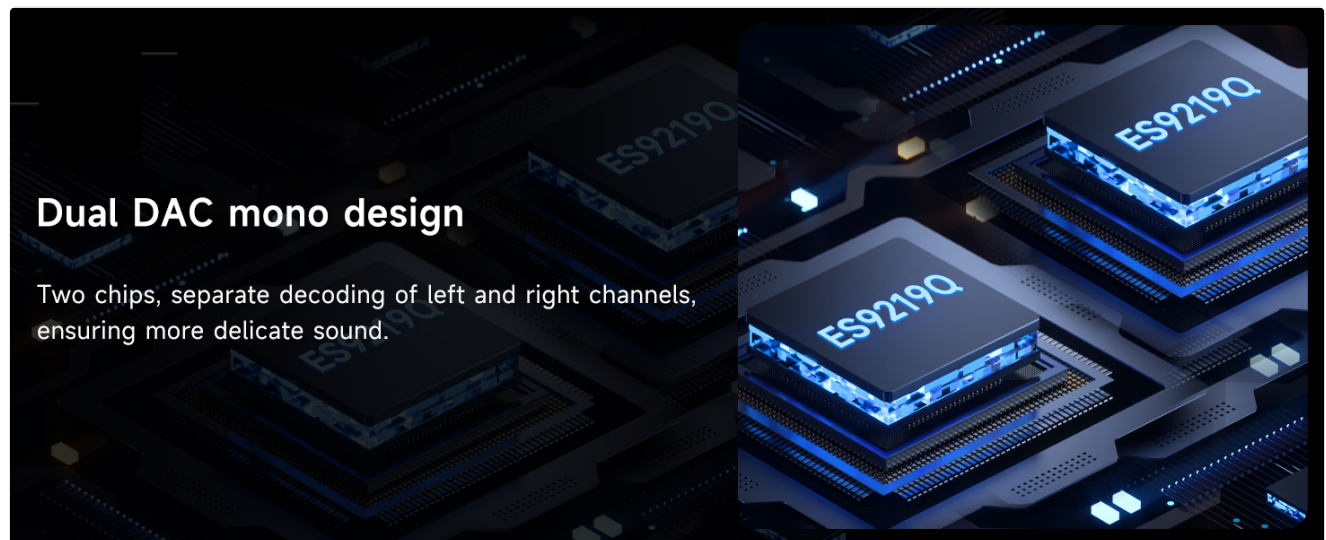


Figure 6.2: M18i in Bluetooth Mode

6.1.3 PC Mode

In PC Mode, the M18i's USB audio port can transfer data and supply power to charge the battery or provide power to the system. When connected to a phone in PC mode, the M18i will consume the phone's battery power.



Figure 6.3: M18i in PC Mode

6.2 Gain Switch

In Phone or PC mode, press the "GAIN/MFB" button to switch between HIGH/LOW gain settings. This allows you to match the impedance of different headphones for optimal audio output.

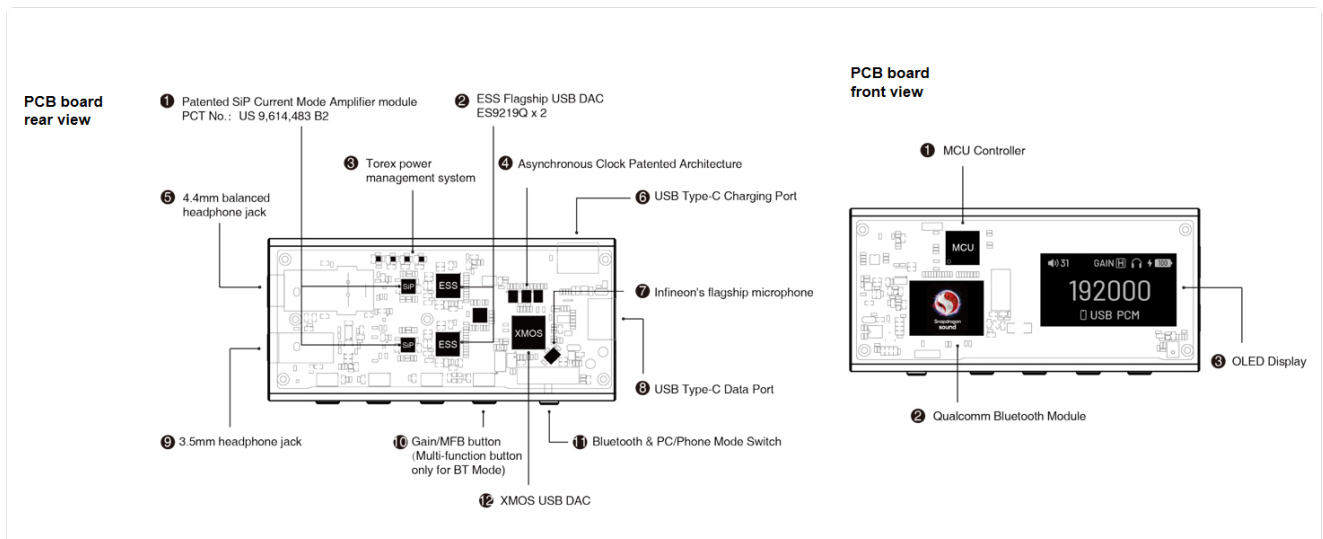


Figure 6.4: Gain Switch Location

6.3 MFB Button (Multi-Function Button)

The MFB multi-function button is only operable in Bluetooth mode.

- **Music Playback:** During playback in Bluetooth connected state, click the "MFB" button once to toggle between Pause and Play. Click it twice to skip to the next track.
- **Call Management:** When a call comes in while playing in Bluetooth connected state, click the "MFB" button once to answer the call. Click it twice to reject the call. During an active call, click it once to end the call.

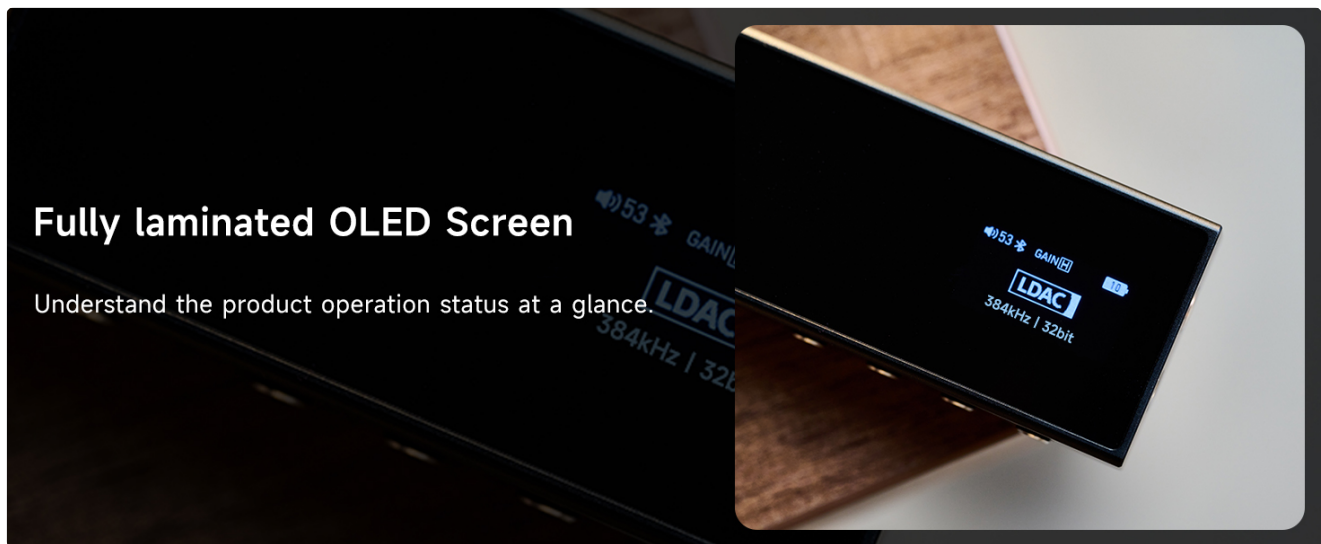


Figure 6.5: MFB Button Location

6.4 Volume Control

Use the dedicated volume buttons (+ and -) on the M18i to adjust the loudness. The device provides 60 levels of volume control.

7. MAINTENANCE

To ensure the longevity and optimal performance of your Questyle M18i, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry, lint-free cloth to clean the exterior of the device. Avoid using harsh chemicals, cleaning solvents, or strong detergents, as they may damage the finish or internal components.
- **Storage:** When not in use, store the M18i in a cool, dry place, away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Handle the device with care. Avoid dropping it or subjecting it to strong impacts, which can damage internal circuitry.
- **Connectivity Ports:** Keep the headphone jacks and USB-C ports free from dust and debris. You may use a can of compressed air to gently clear any obstructions.
- **Charging:** Always use the provided cable or a high-quality, compatible USB-C cable for charging to prevent potential damage to the battery or charging port.

8. TROUBLESHOOTING

If you encounter issues with your M18i, please refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|-----------------|--|---|
| No sound output | Incorrect mode selected; Loose headphone connection; Low device volume; Device not powered on. | Ensure correct mode (Phone/PC/Bluetooth) is selected. Check headphone connection. Increase volume on M18i and source device. Power on the M18i. |

| Problem | Possible Cause | Solution |
|---|---|--|
| Bluetooth connection issues | M18i not in pairing mode; Interference; Previously paired device interfering. | Ensure M18i is in Bluetooth mode and discoverable. Move closer to the source device. Turn off Bluetooth on other nearby devices. Try forgetting and re-pairing the M18i on your source device. |
| Poor sound quality (distortion, low volume) | Incorrect gain setting; Low quality audio source; Damaged cable/headphones. | Adjust the gain setting (HIGH/LOW) to match your headphones. Ensure you are playing high-quality audio files. Test with different headphones or cables. |
| Short battery life | High volume usage; Bluetooth mode (higher power consumption); Old battery. | Reduce volume. Consider using PC mode for extended listening as it can draw power from the host. Ensure the device is fully charged before use. |
| Device not charging | Faulty cable/charger; Dirty charging port. | Try a different USB-C cable and power adapter. Clean the USB-C charging port gently. |

If the problem persists after trying these solutions, please contact Questyle customer support for further assistance.

9. SPECIFICATIONS

| Specification | Value |
|-----------------------------------|---|
| Model Name | M18i |
| Brand | Questyle |
| Connectivity Technology | Bluetooth, USB |
| Wireless Communication Technology | Bluetooth 5.4 |
| Headphones Jack | 3.5 mm Jack, 4.4 mm Balanced |
| Compatible Devices | Cellphones, Smartphone, Various systems including Android, iOS, Windows, Mac, and devices like phones, computers, tablets, laptops, audio players, and car audio systems. |
| Material | Aluminum |
| Item Weight | 0.14 Kilograms (approx. 5 ounces) |
| Control Method | Push Button |
| Charging Time | 2 Hours |
| Impedance | 300 Ohm |
| DAC Chip | ESS ES9219Q x 2 |

| Specification | Value |
|--------------------------|--|
| Supported Audio Codecs | AAC, SBC, aptX, aptX HD, aptX Adaptive, LE AUDIO, LDAC |
| Max Resolution (USB DAC) | PCM 384kHz/DSD256 |
| Microphone | Infineon flagship microphone with cVc Generation 8.0 |

10. WARRANTY AND SUPPORT



The Questyle M18i is sold by Questyle, ensuring direct support from the manufacturer. For specific warranty details, please refer to the warranty card included with your product or visit the official Questyle website. For technical support, troubleshooting assistance beyond this manual, or service inquiries, please contact Questyle customer support through their official channels.

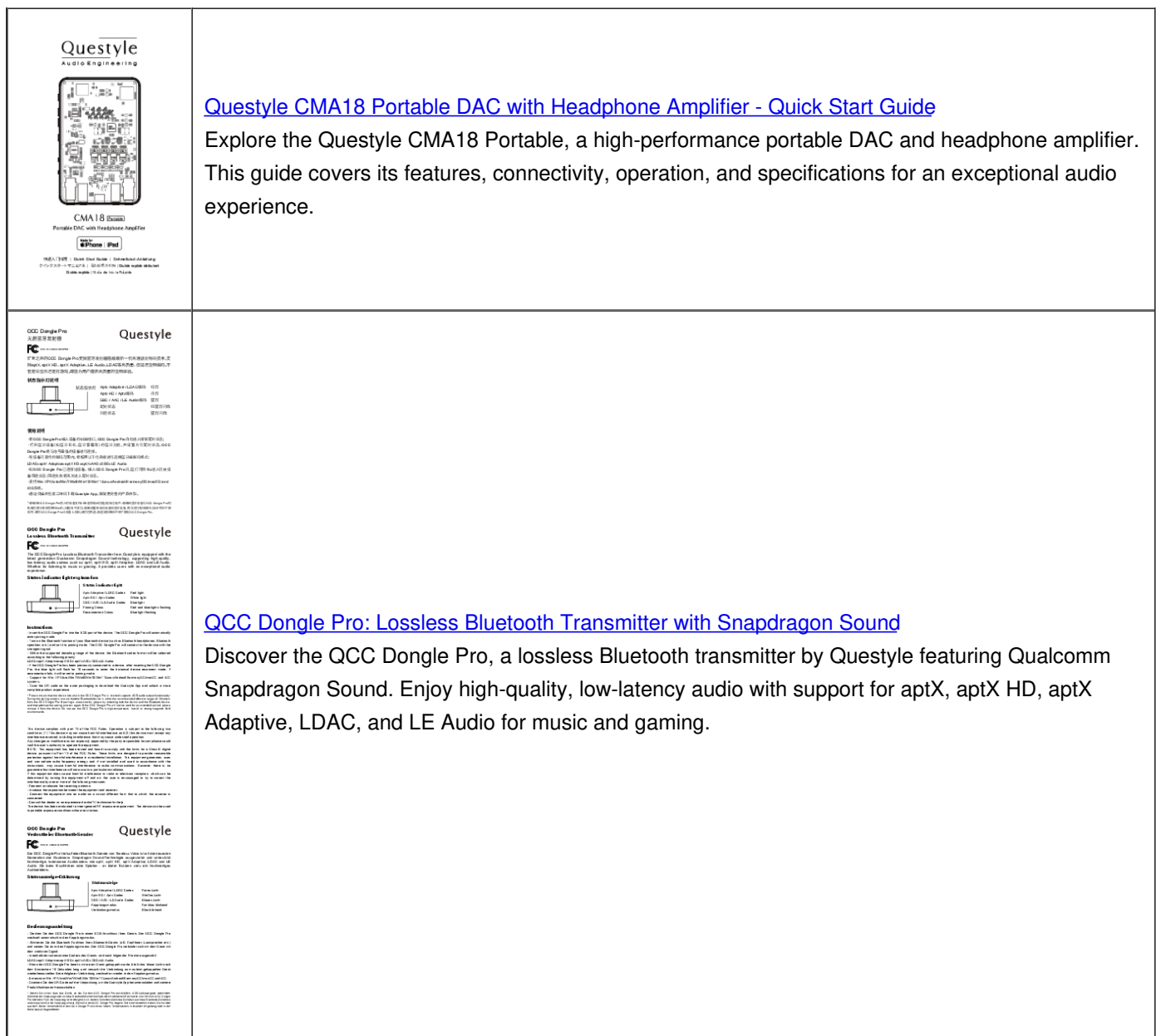
Questyle Official Website: www.questyle.com

Please retain your proof of purchase for warranty claims.

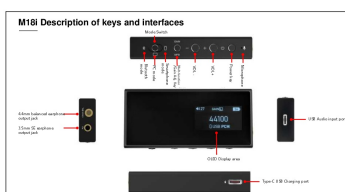
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Related Documents

| | |
|---|---|
|  | <p>Questyle SIGMA Portable DAC with Headphone Amplifier - User Guide</p> <p>Comprehensive guide to the Questyle SIGMA, a portable DAC and headphone amplifier featuring high-resolution audio, multiple input options, and advanced amplification circuits. Learn about its features, components, controls, and specifications.</p> |
|  | <p>Questyle M15: Portable Lossless DAC and Headphone Amplifier for Hi-Res Audio</p> <p>Experience ultimate mobile Hi-Fi with the Questyle M15, a compact lossless DAC and headphone amplifier featuring advanced CMA SiP technology, ESS ES9281AC DAC, and MQA support. Enjoy pure sound anywhere.</p> |



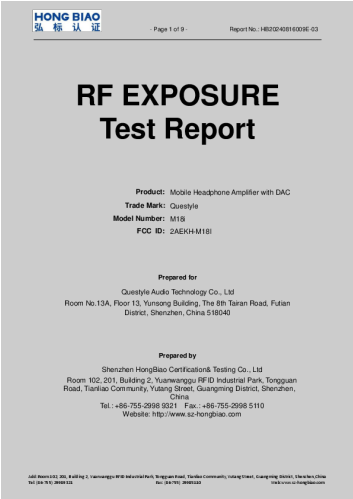
Documents - Questyle – M18i



[\[pdf\]](#) User Manual Instructions

PowerPoint andyz User Manual Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i

M18i Description of keys and interfaces Mode Switch Microphone Power key VOL
VOL - Mult-function /Gain Adj. Key Smartphone mode PC mode Bluetooth mode
4.4mm balanced earphone output jack 3.5mm SE earphone output jack USB Audio
input port OLED Display area Type-C USB Charging port **M18i** Audio I...
lang:en score:43 filesize: 294.71 K page count: 10 document date: 2024-08-21



[pdf] Test Report SAR Rating

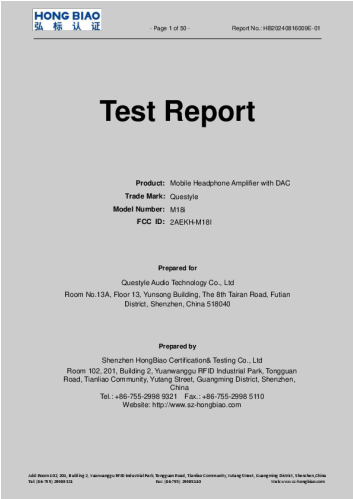
leon chen RF Exposure Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i

- Page 1 of 9 - Report No.: HB20240816009E-03 RF EXPOSURE Test Report Product: Mobile Headphone Amplifier with DAC Trade Mark: Questyle Model Number: **M18i** FCC ID: 2AEKH-**M18I** Prepared for Questyle Audio Technology Co., Ltd Room No.13A, Floor 13, Yunsong Building, The 8th Tairan Road, Futian Distri... lang:tl score:37 filesize: 989.84 K page_count: 9 document date: 2024-12-17



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zhouyongbang Attestation of Cover List Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i Questyle Audio Technology Co., Ltd Federal Communications Commission Authorization and Evaluation Division 7435 Oakland Mills Road Columbia, MD 21046 USA Date: 2024-12-17 FCC ID: 2AEKH-**M18I** Ref. #1: Attestation Statements Part 2.911 d 5 i Filing Questyle Audio Technology Co., Ltd certifies that t... lang:en score:37 filesize: 312.72 K page_count: 1 document date: 2024-12-17



[pdf] Test Report

leon chen Test Report Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i

- Page 1 of 50 - Report No.: HB20240816009E-01 Test Report Product: Mobile Headphone Amplifier with DAC Trade Mark: Questyle Model Number: **M18i** FCC ID: 2AEKH-**M18I** Prepared for Questyle Audio Technology Co., Ltd Room No.13A, Floor 13, Yunsong Building, The 8th Tairan Road, Futian District, Shenzhen... lang:tl score:36 filesize: 5.21 M page_count: 50 document date: 2024-12-17

HOPEK CORPORATION INC

US Agent for Service of Process LETTER OF ATTESTATION

YIN

Office of Engineering Technology
Federal Communications Commission
FCC Equipment Division
Washington, DC 20544

US Agent for Service of Process:

Company Name: HOPEK CORPORATION INC
Address: 1312 13th Street, Suite 1300, Denver, CO 80202 United States
Phone: (303) 642-9000
Contact Name: Natalie Wu
Telephone: (303) 642-9000
Email: hlopek@hopek.com

The letter is to confirm that the US Agent for Service of Process accepts responsibility to act as a local representative on behalf of Questyle Audio Technology Co., Ltd.

The US Agent for Service of Process is aware of and agrees to comply with the requirements outlined in the FCC Equipment Authorization Program, Report and Order FCC 22-94, and clause 5.2.1.11.


Applicant:

Company Name: Questyle Audio Technology Co., Ltd.
Product Description: Mobile Headphone Amplifier with DAC
FCC ID: 2AEKH-M18I
Grant Code: 2AEKH
Contact Name: Natalie Wu
Address: Room No.13A, Floor 13, Yunsong Building, The 8th Tairan Road, Futian District, Shenzhen, China 518048
Telephone: (86)755-2998 5110
Email: hlopek@questyle.com

This Agreement is valid until (thenuerally valid):
Date: 2024/12/17

US Agent for Service of Process's Name:

Title: Project Manager

Signature: 

1/1

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Adria Galin Pons US Agent Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i

HOPEK CORPORATION INC US Agent for Service of Process LETTER OF ATTESTATION TO: Office of Engineeri ... Description: Mobile Headphone Amplifier with DAC FRN: 0024513806 Grantee Code: 2AEKH FCC ID: 2AEKH-**M18I** Contact Name: Natalie wu Address: Room No.13A, Floor 13, Yunsong Building, The 8th Tairan Road,...

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HONG BIAO

弘 標 认 证

Page 1 of 61 - Report No.: HB20240816009E-02

Test Report

Product: Mobile Headphone Amplifier with DAC

Trade Mark: Questyle

Model Number: M18

FCC ID: 2AEKH-M18I

Prepared for

Questyle Audio Technology Co., Ltd

Room No.13A, Floor 13, Yunsong Building, The 8th Tairan Road, Futian District, Shenzhen, China 518048

Prepared by

Shenzhen HongBiao Certification Testing Co., Ltd

Room 102, 201, Building 2, Xuanwengou RD ID Industrial Park, Tonggang Road, Tianluo Community, Yutang Street, Guangming District, Shenzhen, China

Tel.: +86-755-2998 5110 Fax: +86-755-2998 5110 Website: http://www.sz-hongbiao.com

168 HongBiao Test Building 1 Yunsongguo RD Futian District Shenzhen China 518048
Tel: (86) 755 2998 5110
168 HongBiao Test Building 1 Yunsongguo RD Futian District Shenzhen China 518048
Tel: (86) 755 2998 5110

[pdf] Test Report

leon chen Test Report Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i

- Page 1 of 61 - Report No.: HB20240816009E-02 Test Report Product: Mobile Headphone Amplifier with DAC Trade Mark: Questyle Model Number: **M18I** FCC ID: 2AEKH-**M18I** Prepared for Questyle Audio Technology Co., Ltd Room No.13A, Floor 13, Yunsong Building, The 8th Tairan Road, Futian District, Shenzhen...

lang:tl score:35 filesize: 5.58 M page_count: 61 document date: 2024-12-17

Questyle Audio Technology Co., Ltd

Date: Dec. 17, 2024

Product Model Number: Mobile Headphone Amplifier with DAC
FCC ID: 2AEKH-M18I

To whom it may concern,


Re: Product Certification Representative Authorization Letter

We authorize QAI Laboratories Ltd. 3980 North Fraser Way, Burnaby B.C. Canada V5J 9K5 to act on our behalf on all matters concerning the above named equipment.

This shall include the following:

- Testing
- Approval applications and procedures

We declare that **QAI LABORATORIES LTD.** is allowed to forward all information related to the approval project to the applied certification body and to the notification entities and to discuss any issues concerning this approval application. Any and all acts carried out by **QAI LABORATORIES LTD.** on our behalf shall have the same effect as acts of our own.

by 

Contact Listed on FCC Website

Title: Project Manager
Email: Natalie.wu@questyle.com
Telephone: (86)75529985110
On behalf of Questyle Audio Technology Co., Ltd

Shenzhen, April 5, 2025 QAI (U.S.A.) Agents, Inc. 3980 North Fraser Way, Burnaby B.C. Canada V5J 9K5
Reference: 01

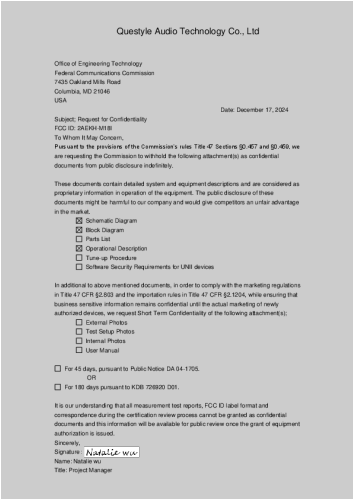
Page 1 of 1

[pdf] Agent Authorization

TIMCO Engineering Inc admin Agent Authorization Letter Template Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i

DateDec. 17, 2024 Questyle Audio Technology Co., Ltd Product Model Number: Mobile Headphone Amplifier with DAC FCC ID: 2AEKH-**M18I** To whom it may concern, Re: Product Certification Representative Authorization Letter We authorize QAI Laboratories Ltd. 3980 North Fraser Way, Burnaby B.C. Canada V5J...

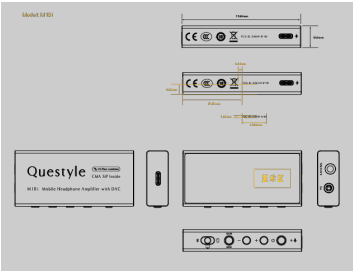
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[pdf] Confidentiality Request Letter

emc FCC Short Long Term Confidentiality Request Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i

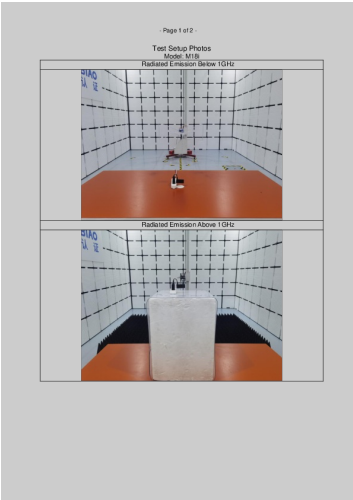
Questyle Audio Technology Co., Ltd Office of Engineering Technology Federal Communications Commission 7435 Oakland Mills Road Columbia, MD 21046 USA
Date: December 17, 2024 Subject; Request for Confidentiality FCC ID: 2AEKH-**M18I**
To Whom It May Concern, Pursuant to the provisions of the Commission s ...
lang:en score:34 filesize: 182.17 K page_count: 1 document date: 2024-12-17



[pdf] Label

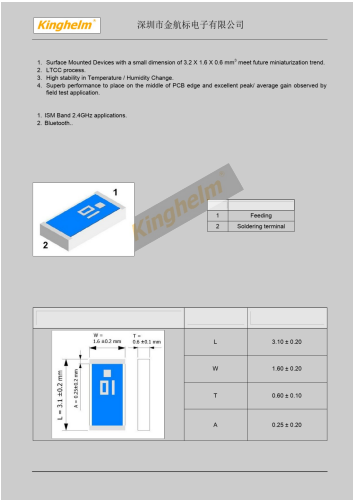
M18i 240827 wa Label Information Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i

Model: **M18i** 6.26mm 75.00mm FCC ID: 2AEKH-**M18I** 2.45mm FCC ID: 2AEKH-**M18I** 37.60mm 1.28mm 2AEKH-**M18I** 15.42mm 13.8mm ...
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[pdf] Product Photos

ATTACHMENT PHOTOGRAPHS OF EUT Test Setup Photos Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i
- Page 1 of 2 - Test Setup Photos Model:**M18i** Radiated Emission Below 1GHz
Radiated Emission Above 1GHz - Page 2 of 2 - Conducted Emission ...
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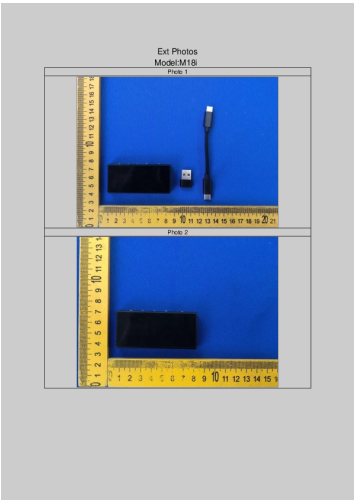


[pdf] Specifications Dimension Guide

Microsoft Word ASC RFEC A3216060A1T V09 ADMIN Antenna Report Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH 2AEKHM18I m18i

Approval sheet FEATURES 1. Surface Mounted Devices with a small dimension of 3.2 X 1.6 X 0.6 mm3 meet future miniaturization trend. 2. LTCC process. 3. High stability in Temperature / Humidity Change. 4. Superb performance to place on the middle of PCB edge and excellent peak/ average gain observ...

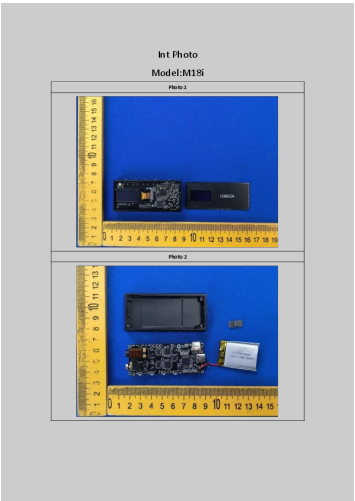
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[\[pdf\]](#) Product Photos

External Photos Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC
2AEKH 2AEKHM18I m18i

Ext Photos Model:**M18i** Photo 1 Photo 2 Photo 3 Photo 4 Photo 5 Photo 6 Photo 7 ...
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[\[pdf\]](#) Product Photos Teardown

Internal Photos Questyle Audio Technology Co Ltd M18I Mobile Headphone Amplifier with DAC 2AEKH
2AEKHM18I m18i

Int Photo Model:**M18i** Photo 1 Photo 2 Photo 3 Photo 4 Photo 5 ANT ...
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