

XTUGA SF-1, TS11

XTUGA SF-1 Wireless XLR System & TS11 Audio Mixer User Manual

Comprehensive guide for setup, operation, and maintenance.

INTRODUCTION

This manual provides detailed instructions for the XTUGA SF-1 UHF Wireless XLR Transmitter and Receiver system and the XTUGA TS11 Professional 11 Channel Audio Mixer. Please read this manual thoroughly before operating the devices to ensure proper use and optimal performance.

XTUGA SF-1 WIRELESS XLR SYSTEM OVERVIEW

The XTUGA SF-1 is a compact UHF wireless system designed for microphones, offering reliable audio transmission with low latency. It includes a transmitter and a receiver, both rechargeable and equipped with 48V phantom power for condenser microphones.



Image: The XTUGA SF-1 wireless system, showing both the transmitter (right) and receiver (left) units. The transmitter has an LCD display, while the receiver has LED indicators for channel, RF, and AF.

Key Features

- UHF Wireless Transmission: Stable and reliable signal.
- 48V Phantom Power: Supports both dynamic and condenser microphones.
- Rechargeable Battery: Long operating time.
- Low Latency: Less than 2ms for real-time sound transmission.
- 50 Meters Transmission Distance: Stable signal with strong anti-interference.
- 16 Selectable Frequencies: Allows multiple sets to operate simultaneously.

XTUGA SF-1 SETUP

Charging the Units

Before first use, fully charge both the transmitter and receiver using the provided USB cable. The battery indicator LEDs will show charging status.



Image: Illustration showing the XTUGA SF-1 units with a large '6H' indicating approximately 6 hours of rechargeable battery life.

Connecting and Pairing

- Connect Transmitter:** Plug the SF-1 transmitter into your microphone's XLR output. If using a condenser microphone, ensure the 48V phantom power is activated on the transmitter if required by your microphone.
- Connect Receiver:** Plug the SF-1 receiver into the XLR input of your mixer, audio interface, or PA system.
- Power On:** Press and hold the Power button on both the transmitter and receiver until their displays/indicators light up.
- Automatic Pairing:** The units should automatically pair. The RF indicator on the receiver will illuminate steadily when a stable connection is established.
- Channel Selection (if needed):** If interference occurs, press the "CH" button on the transmitter to cycle through available frequencies. The receiver will automatically sync to the new frequency. Up to 16 sets can operate simultaneously.

16 SLECTABLE FREQUENCIES

Support One to One & One to More, Maximum 16 set simultaneously



Image: Depicts multiple XTUGA SF-1 units connected to microphones and a mixer, illustrating the capability of supporting up to 16 selectable frequencies for simultaneous use.

XTUGA SF-1 OPERATION

Once connected and paired, the SF-1 system provides real-time audio transmission. Ensure the microphone is powered on and functioning correctly. Adjust the volume on your mixer or audio device as needed.

LOW LATENCY WIRELESS XLR SYSTEM

Real-time sound transmission for smooth stage



Less than 2ms latency

Image: A graphic highlighting the "Low Latency Wireless XLR System" feature of the XTUGA SF-1, showing a musician performing with the units and a clock icon indicating less than 2ms latency.

Power Management

- Power On/Off:** Press and hold the Power button for approximately 3 seconds.
- Battery Indicator:** The LED indicators on the receiver and the LCD on the transmitter show the remaining battery life. Recharge when the battery is low.

50 METERS TRANSMISSION DISTANCE

Stable signal and strong anti-interference ability



Image: A graphic illustrating the 50-meter transmission distance capability of the XTUGA SF-1, emphasizing stable signal and strong anti-interference.

XTUGA TS11 AUDIO MIXER OVERVIEW

The XTUGA TS11 is a professional 11-channel audio mixer designed for studio, DJ, and live sound applications. It features extensive input options, a 7-band EQ, 99 DSP effects, independent 48V phantom power, Bluetooth connectivity, and a USB interface for recording.

9 MONO+2 STEREO INPUTS



Image: Top-down view of the XTUGA TS11 audio mixer, highlighting its 9 mono and 2 stereo input channels with various controls for each channel.

Key Features

- 11 Channels: 9 mono (XLR/TRS combo) and 2 stereo (TRS) inputs.
- 99 DSP Effects: Built-in digital signal processing for various audio effects.
- 7-Band Graphic Equalizer: For precise frequency shaping on the main output.
- Independent 48V Phantom Power: Available on mono channels for condenser microphones.
- Bluetooth Function: Wireless audio streaming from compatible devices.
- USB Interface: For direct recording to a computer or playback from a USB drive.
- Independent Mute Buttons: For each input channel.

XTUGA TS11 SETUP

Power Connection

Connect the provided power adapter to the mixer's power input and then to a suitable power outlet. Press the power switch to turn on the mixer.

Input Connections

- **Microphones:** Connect microphones to the XLR/TRS combo jacks (channels 1-9). For condenser microphones requiring phantom power, press the 48V PHANTOM POWER button for the respective channel.
- **Line-Level Devices:** Connect instruments (keyboards, guitars with DI boxes), media players, or other line-level devices to the TRS inputs.
- **Stereo Inputs:** Use channels 10/11 for stereo line-level sources.

Output Connections

- **Main Output:** Connect the MAIN OUT (XLR or TRS) to your power amplifier, powered speakers, or recording device.
- **Headphones:** Connect headphones to the PHONES jack for monitoring.
- **AUX Send:** Use the AUX SEND for external effects processors or monitor mixes.

XTUGA TS11 OPERATION

Channel Controls

- **GAIN:** Adjusts the input sensitivity for each channel. Set this to achieve a strong signal without clipping.
- **EQ (HI, MID, LOW):** Three-band equalizer for shaping the tone of each channel.
- **FX:** Controls the amount of internal DSP effect applied to the channel.
- **PAN:** Positions the channel's signal in the stereo field (left to right).
- **LEVEL Fader:** Adjusts the output volume of each channel to the main mix.
- **MUTE:** Silences the individual channel.

INDEPENDENT MUTE SWITCH



Image: Close-up of the XTUGA TS11 mixer's channel faders and mute buttons, emphasizing the independent mute switch for each channel.

DSP Effects

The TS11 features 99 built-in DSP effects. Use the PROGRAM knob to select an effect. The display will show the effect number. Adjust the FX SEND and RETURN levels to control the overall effect amount.

REVERB ADJUSTMENT

Built-in 99 DSP reverb effects



99DSP



Turn to select the effect type and it will take effect automatically

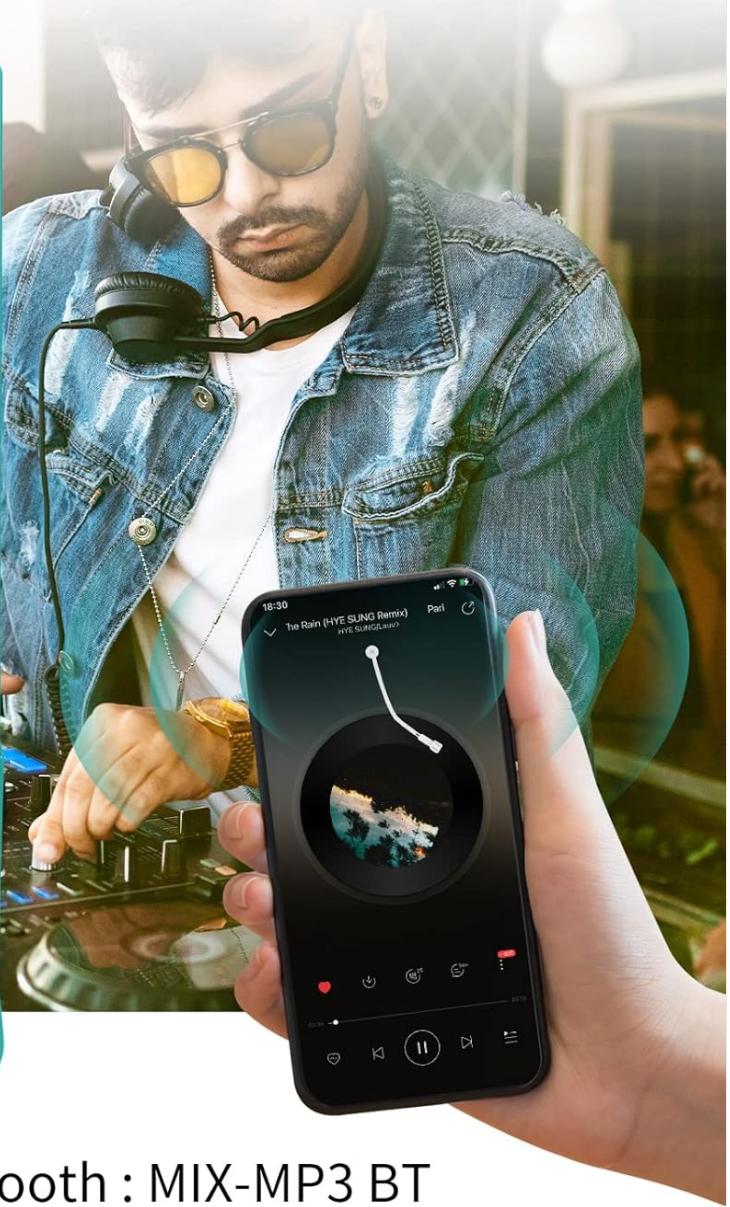
Image: A section of the XTUGA TS11 mixer's control panel, highlighting the "99DSP" section with the program knob and display, indicating the selection of built-in reverb effects.

Bluetooth Connectivity

To connect a Bluetooth device:

1. Press the MODE button on the digital MP3 player section until "Bluetooth" or "BT" is displayed.
2. On your smart device, search for Bluetooth devices and select "MIX-MP3 BT".
3. Once paired, you can play audio from your device through the mixer.

BLUETOOTH-COMPATIBLE



Bluetooth : MIX-MP3 BT

Image: A user interacting with the XTUGA TS11 mixer while a smartphone displays a music player, illustrating the mixer's Bluetooth compatibility and the "MIX-MP3 BT" pairing name.

USB Playback and Recording

- USB Playback:** Insert a USB drive with audio files into the USB port. Use the controls in the digital MP3 player section to navigate and play tracks.
- USB Recording:** Connect the mixer to a computer via the USB port. The mixer will appear as an audio interface. Use your preferred recording software to capture the main mix.

MAINTENANCE

- Cleaning:** Use a soft, dry cloth to clean the surfaces of both the SF-1 units and the TS11 mixer. Avoid liquid cleaners or abrasive materials.
- Storage:** Store the devices in a cool, dry place away from direct sunlight and extreme temperatures.
- Battery Care (SF-1):** For optimal battery life, avoid fully discharging the SF-1 units frequently. Recharge them regularly, especially if storing for extended periods.

TROUBLESHOOTING

Problem	Possible Cause	Solution
SF-1: No sound or intermittent signal.	Units not paired. Low battery. Interference from other wireless devices. Out of range. Incorrect microphone connection.	Ensure both transmitter and receiver are powered on and paired. Recharge units. Change the operating frequency on the SF-1 transmitter. Reduce distance between units. Check microphone connection and phantom power setting.
TS11: No sound from main output.	Main fader down. Channel mute engaged. Incorrect output connection. Gain too low on channels.	Raise the MAIN L/R faders. Disengage mute buttons on active channels. Verify main output cables are correctly connected to powered speakers/amplifier. Increase GAIN on input channels.
TS11: Bluetooth not connecting.	Mixer not in Bluetooth mode. Device already paired to another mixer. Bluetooth device too far.	Ensure the mixer's digital player is set to "BT" mode. Disconnect from other devices. Move Bluetooth device closer to the mixer.

SPECIFICATIONS

XTUGA SF-1 Wireless XLR System

- Frequency Band:** UHF
- Latency:** < 2ms
- Transmission Distance:** Up to 50 meters (line of sight)
- Phantom Power:** 48V (switchable on transmitter)
- Battery Life:** Approximately 6 hours
- Channels:** 16 selectable frequencies

XTUGA TS11 Audio Mixer

- Channels:** 11 (9 mono XLR/TRS, 2 stereo TRS)
- DSP Effects:** 99 built-in effects
- Equalizer:** 7-band graphic EQ on main output
- Phantom Power:** +48V (independent per mono channel)
- Connectivity:** Bluetooth, USB (playback/recording)
- Inputs:** XLR, 1/4" TRS
- Outputs:** XLR, 1/4" TRS (Main, AUX, Phones)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the product packaging or contact XTUGA customer service

directly. Keep your purchase receipt as proof of purchase.

For further assistance, visit the official XTUGA website or contact their support team through the details provided with your product.

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Documents - XTUGA – SF-1, TS11

US Agent for Service of Process LETTER OF ATTESTATION

To:
Office of Engineering Technology
Federal Communications Commission
7425 Oldland Hills Blvd
Columbia, MD 20736

US Agent for Service of Process

Applicant:
Company name: Xtuga E-COMMERCE CORP.
Product name: Wired microphone converter
Grantee code:2BDIS
FCC ID:2BDIS-SF-1
Central Name:Hang Chen
Address:949 Constance Ln Unit E Sycamore IL 60178
Telephone No:779-902-2359
Email:hangchen@xtuga.com
Fax No:779-902-2359
Phone No:779-902-2359

(Xtuga E-COMMERCE CORP.) certifies that, as of the date of this filing of the application with the FCC, [Xtuga E-COMMERCE CORP.] is our designated US agent for service of process for the above-referenced FCC ID. [Xtuga E-COMMERCE CORP.] has no other agents for service of process for the above FCC ID, and after the grantee has terminated all marketing and importation or the conditions are no longer met, the applicant [Xtuga E-COMMERCE CORP.] accepts, as of the date of the filing of the application, [Xtuga E-COMMERCE CORP.] accepts, as of the date of the filing of the application, the obligation of the designated US agent for service of process for the above-referenced FCC ID.

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 20-24-1 and rules § 2.911.

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Date: 2024/01/29

Applicant's Name/Title: Hang Chen	US Agent's Name/Title: Hang Chen
Signature: Hang Chen	Signature: Hang Chen

[pdf] Agent Authorization

Adria Galin Pons US Agent Letter Xtuga E COMMERCE CORP SF 1 Wired microphone converter 2BDIS

2BDISSF1 sf

US Agent for Service of Process LETTER OF ATTESTATION TO: Office of

Engineering Technology Federal ... uga E-COMMERCE CORP. Product

Description:Wired microphone converter Grantee code:2BDIS FCC ID:2BDIS-SF-1

Contact Name:Hang Chen Address:949 Constance Ln Unit E Sycamore IL 60178

Telephone No:779-902-2...

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CS244091_X24_Ed2

Xtuga E-COMMERCE CORP.
"Attestation Statements"

To:
Office of Engineering Technology
Federal Communications Commission
7425 Oldland Hills Blvd
Columbia, MD 20736

The Applicant: Xtuga E-COMMERCE CORP.
[The Applicant] certifies that, as of the date of the filing of the application, the applicant is not identified on the "Covered List", which is periodically updated. See the "Covered List" for more details. This statement is made in order to confirm that we follow the Section 2.911(d)(5)(i)-(ii) rules.

Applicant:
Company name: Xtuga E-COMMERCE CORP.
Grantee code: 2BDIS
FCC ID: 2BDIS-SF-1
RNI: 031454965
Central Name:Hang Chen
Address:949 Constance Ln Unit E Sycamore IL 60178
Telephone No:779-902-2359
Email:hangchen@xtuga.com
Fax No:779-902-2359

(Xtuga E-COMMERCE CORP.) certifies that the equipment identified in the application is not a "covered" equipment and is not receiving an equipment authorization pursuant to section 2.803 of the FCC Rules. (Xtuga E-COMMERCE CORP.) certifies that, as of the date of the filing of the application, the applicant is not (as a specifically named entity or as a member of a group) identified on the "Covered List" as an entity producing "covered" equipment. The applicant must sign this certification.

[Xtuga E-COMMERCE CORP.] certifies that, as of the date of the filing of the application, the applicant is not identified on the "Covered List" as an entity producing "covered" equipment.

Date: 2024/01/29

Applicant's Name: Hang Chen	Title: Manager
Signature: Hang Chen	

Xtuga E-COMMERCE CORP. FCC Attestation Statement for Equipment Authorization

Official attestation statement from Xtuga E-COMMERCE CORP. to the FCC,

certifying that their telecommunications and video surveillance equipment is not 'covered' under Section 2.911(d)(5)(i)-(ii) rules, ensuring compliance for equipment authorization.

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CS244091_X24_Ed1

Letter of Authorization

Xtuga E-COMMERCE CORP.

Company: Xtuga E-COMMERCE CORP.
Address: 949 Constance Ln Unit E Sycamore IL 60178
Product Name:Wired microphone converter
Model Number: SF-1

FCC Identifier: 2BDIS-SF-1

We authorize LGAI Technological Center S.A. Ronda de la Font de Carles, s/n, 03935 Bellaterra, Spain, to act on our behalf on all matters concerning the above named equipment.

Any individual within LGAI Technological Center S.A. is authorized to act on our behalf and take action on the application.

We declare that LGAI Technological Center S.A., Ronda de la Font de Carles, s/n, 03935 Bellaterra, Spain, is allowed to forward all information related to the application to the FCC. LGAI Technological Center S.A. will be liable for any issue concerning the approval application. Any and all acts carried out by LGAI Technological Center S.A. on our behalf shall have the same effect as acts of our own.

Name: Hang Chen
Date: 2024-1-26
Title: Manager

Signature of applicant:
Hang Chen

Xtuga E-COMMERCE CORP. FCC Authorization for SF-1 Wired Microphone Converter

Official letter of authorization from Xtuga E-COMMERCE CORP. granting LGAI

Technological Center S.A. permission to act on its behalf for FCC approval processes concerning the SF-1 Wired Microphone Converter (FCC ID: 2BDIS-SF-1).

lang:en score:26 filesize: 193.58 K page_count: 1 document date: 2024-01-28



FCC Test Report

Inhaltsübersicht

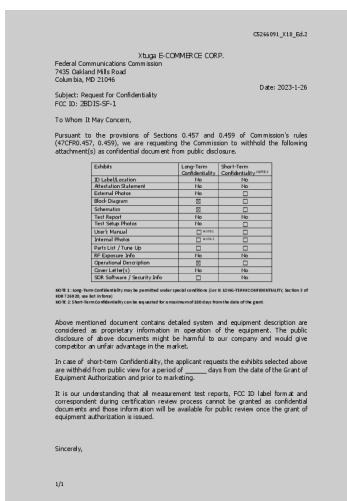
Applicant	Khaga E-COMMERCE CORP.
Address	949 Constance Ln Unit E Sycamore IL 60178
Product Name	Wired microphone converter
Brand Name	XTUDA
Model Name	SF-1
Series Model	N/A
FCC ID	2ABD5-F5-1

Issued By: FCC Compliance Service Laboratory
 Address: Room 100 Fox Valley Techpark Building 1 NO. 155 Sycamore West Road Hi-Tech Industrial Park, Sycamore, IL 60178
 Tel: 269-273-9000 Fax: 269-273-9001 E-mail: info@fcs-lab.com

XTUGA SF-1 Wired Microphone Converter FCC Test Report - Compliance and Performance

Comprehensive FCC test report for the XTUGA SF-1 wired microphone converter (Model SF-1, FCC ID: 2BDIS-SF-1), detailing compliance with FCC Part 15 Subpart C regulations, including maximum radiated power, occupied bandwidth, unwanted emissions, and frequency stability tests conducted by Flux Compliance Service Laboratory.

lang:en score:25 filesize: 1.47 M page_count: 34 document date: 2024-01-31



[pdf] Confidentiality Request Letter

Microsoft Word C5266091 X10 Ed2 Request for Confidentiality1 Long Confidentiality Xtuga E
COMMERCE CORP SF 1 Wired microphone converter 2BDIS 2BDISSF1 sf
C5266091_X10_Ed.2 Xtuga E-COMMERCE CORP. Federal Communications
Commission 7435 Oakland Mills Road Columbia, MD 21046 Subject: Request for
Confidentiality FCC ID: 2BDIS-SF-1 Date: 2023-1-26 To Whom It May Concern,
Pursuant to the provisions of Sections 0.457 and 0.459 of Commission's rules 47CF...
lang:en score:23 filesize: 537.53 K page count: 2 document date: 2024-01-28

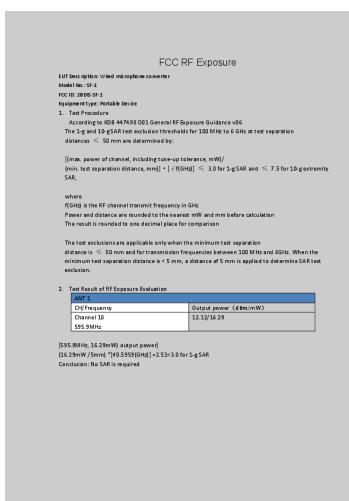
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XTUGA SF-1 Operation Instructions: Wired to Wireless Microphone Converter

Learn how to set up and operate the XTUGA SF-1 Wired to Wireless Microphone Converter. This guide covers technical parameters, signal receiver and transmitter functions, matching instructions, and FCC compliance for the SF-1 audio adapter.

lang:en score:14 filesize: 4.51 M page_count: 3 document_date: 2024-01-29



[pdf] SAR Rating

Windows RF Exposure Xtuga E COMMERCE CORP SF 1 Wired microphone converter 2BDIS
2BDISSE1 sf

FCC RF Exposure EUT Description: Wired microphone converter Model No.:**SF-1**
FCC ID: 2BDIS-**SF-1** Equipment type: Portable Device 1. Test Procedure According to KDB 447498 D01 General RF Exposure Guidance v06 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distanc...

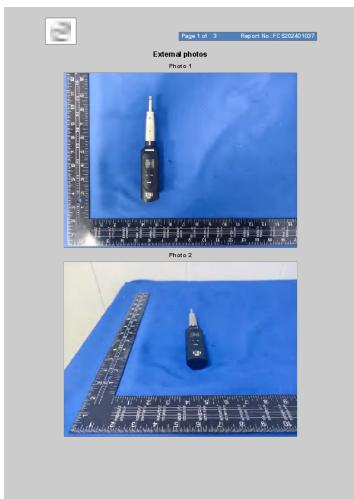
lang:en score:14 filesize: 81 K page count: 1 document date: 2024-01-24



[FCC ID Label and Location for 2BDIS-SF-1 Device](#)

Detailed information and visual representation of the FCC ID label location for the 2BDIS-SF-1 device, including dimensions and placement on the product.

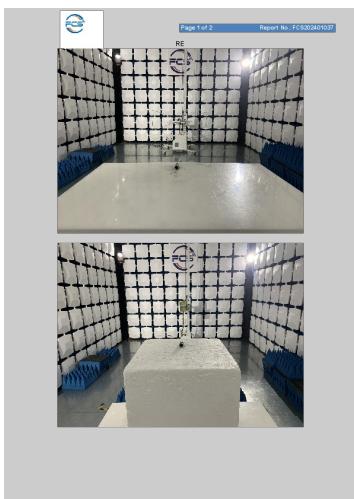
lang:en score:13 filesize: 1.45 M page_count: 1 document date: 2024-01-25



[XTUGA Electronic Tool External Photos Report](#)

This document presents external photographs of an XTUGA electronic tool, identified by report number FCS202401037, showcasing various views of the device with measurement scales.

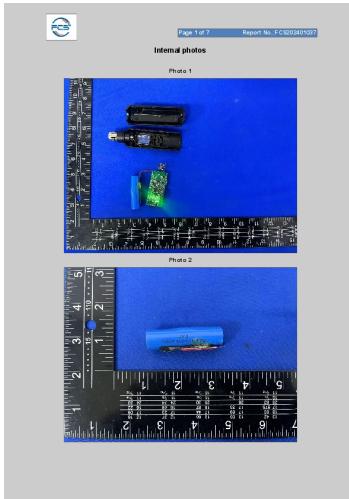
lang:en score:10 filesize: 120.98 K page_count: 3 document date: 2024-01-24



[EMC Test Setup Report - Report No. FCS202401037](#)

This document presents photographic evidence of the test setup for EMC compliance testing, detailed in Report No. FCS202401037, showing radiated emissions and conducted emissions configurations.

lang:en score:10 filesize: 1.53 M page_count: 2 document date: 2024-01-24



[Internal Photos Report for KFXM-009TX\(V02\) Device](#)

Detailed internal photographs of the KFXM-009TX(V02) device, including its disassembled components, circuit board, and battery, with measurements for scale. This report provides visual documentation of the product's internal structure.

lang:en score:10 filesize: 1.35 M page_count: 2 document date: 2024-01-25



[\[pdf\] Specifications](#)

Info Antenna specifications Xtuga E COMMERCE CORP SF 1 Wired microphone converter 2BDIS

2BDISSL1 sf

Fuzhou JieLei Electronic Technology Co.,Ltd. CUSTOMER CUSTOMER P/N: DESCRIPTION P/N: PART NO Specification FRKF-0007 1.1 564MHz V1.0 Frank 2019.07.29 WenSen 2019.07.29 Sean 2019.07.29 2019-2020 Fu Zhou Jie Lei Corporation. All rights reserved. All content, materials, and prog...

lang:en score:9 filesize: 1.17 M page_count: 6 document date: 2024-01-25