

## RADIOMASTER MT12

# Radiomaster MT12 Surface Radio Controller User Manual

Model: MT12

## 1. INTRODUCTION

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The Radiomaster MT12 is an advanced open-source surface radio controller designed for RC cars, boats, crawlers, and other surface models. It is the first surface radio officially supported by EdgeTX, ExpressLRS, and the Multi-module project, offering extensive customizability and a versatile operating system. With 10 physical inputs and support for 16 or 32 channels, the MT12 provides precise control and adaptability for various RC applications.



Figure 1.1: The Radiomaster MT12 Surface Radio Controller, a versatile remote control unit.

## 2. PRODUCT FEATURES

- 
- Pioneering open-source surface radio controller.
  - Official support for EdgeTX, ExpressLRS, and Multi-module project.
  - 10 physical inputs with support for 16 or 32 channels.
  - Highly configurable for a wide array of surface models.
  - Customizable base switches or 4-way joystick included.
  - Adjustable trigger position and spring for fine-tuning.
  - Equipped with 4 precision bearings for smooth control.
  - Non-contact Hall sensors for accurate inputs and precise centering.
  - 5 programmable trim buttons for personalization.
  - 4 proportion input channels for greater functionality.
  - USB-C port with QC3.0 fast charging (up to 2.0A max).
  - CNC lanyard loop and replaceable grip.
  - Custom RGB lighting, configurable via LUA scripts.

### 3. PACKAGE CONTENTS

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Figure 3.1: Contents of the Radiomaster MT12 package, including the MT12 controller, a carrying case, USB-C charging cable, a quick start guide, various interchangeable modules (base switches, 4-way joystick), and a battery holder.

Upon opening the package, verify that all components are present:

- Radiomaster MT12 Surface Radio Controller
- ER3C-i 2.4GHz ELRS PWM Receiver (included with ExpressLRS version)
- Carrying Case
- USB-C Charging Cable
- Quick Start Guide
- Customizable Base Switches / 4-way Joystick
- Battery Holder (for 18650 cells, batteries not included)
- Lanyard

## 4. SETUP



## 4.1 Battery Installation

The MT12 controller requires two 18650 Li-ion batteries (not included). Insert the batteries into the provided battery holder, ensuring correct polarity. Then, insert the battery holder into the battery compartment located at the base of the controller. Close the battery compartment cover securely.

The controller supports QC3.0 fast charging via the USB-C port. Connect the USB-C cable to the port on the controller and to a compatible USB power source (e.g., wall adapter, computer USB port).

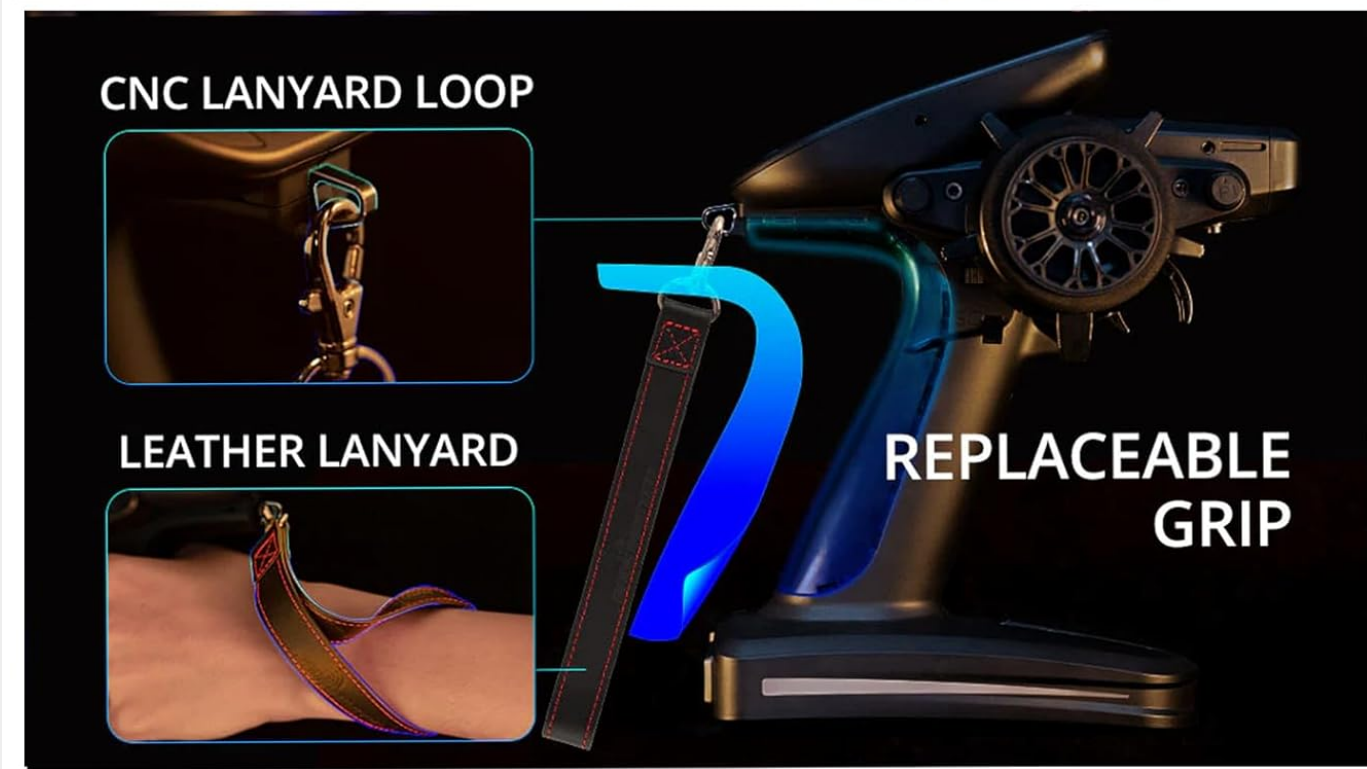


Figure 4.1: Close-up view of the USB-C charging port and CNC lanyard loop on the Radiomaster MT12 controller.

## 4.2 Initial Power On and Binding

Press and hold the power button (located below the screen) to turn on the MT12. The screen will illuminate, displaying the

EdgeTX operating system interface. For initial use, you will need to bind the controller to your receiver. Refer to the EdgeTX documentation or specific receiver manual for detailed binding procedures, as these can vary based on the receiver type (e.g., ExpressLRS).



Figure 4.2: Overview of the Radiomaster MT12 control layout, showing the screen, navigation buttons (SYS, MDL, PAGE, RTN, TELE), and the power button.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Basic Controls

- **Steering Wheel:** Controls the steering of your RC model. Features non-contact Hall sensors for precise input.
- **Throttle Trigger:** Controls the speed and direction (forward/reverse) of your RC model. The trigger is adjustable for position and spring tension.
- **Navigation Buttons:** Use SYS, MDL, PAGE, RTN, and TELE buttons to navigate through the EdgeTX menu system and access various settings.
- **CNC Menu Wheel:** Provides intuitive navigation and selection within the menu system.



Figure 5.1: Side view of the Radiomaster MT12, highlighting the adjustable throttle trigger.





Figure 5.2: Detailed view of the adjustable trigger mechanism and the internal non-contact Hall sensors for precise control.

## 5.2 Advanced Functions

- **Trim Buttons:** The MT12 features 5 programmable trim buttons. These can be assigned to fine-tune various aspects of your model's control, such as steering trim, throttle trim, or other auxiliary functions.
- **Proportion Input Channels:** Utilize the 4 proportion input channels for advanced control over specific model features, offering greater functionality and customization.
- **Custom RGB Lighting:** Personalize the controller's appearance with custom RGB lighting, configurable through LUA scripts within the EdgeTX system.



Figure 5.3: Illustration of the 5 trim buttons and 4 proportion input channels on the Radiomaster MT12, providing enhanced control options.



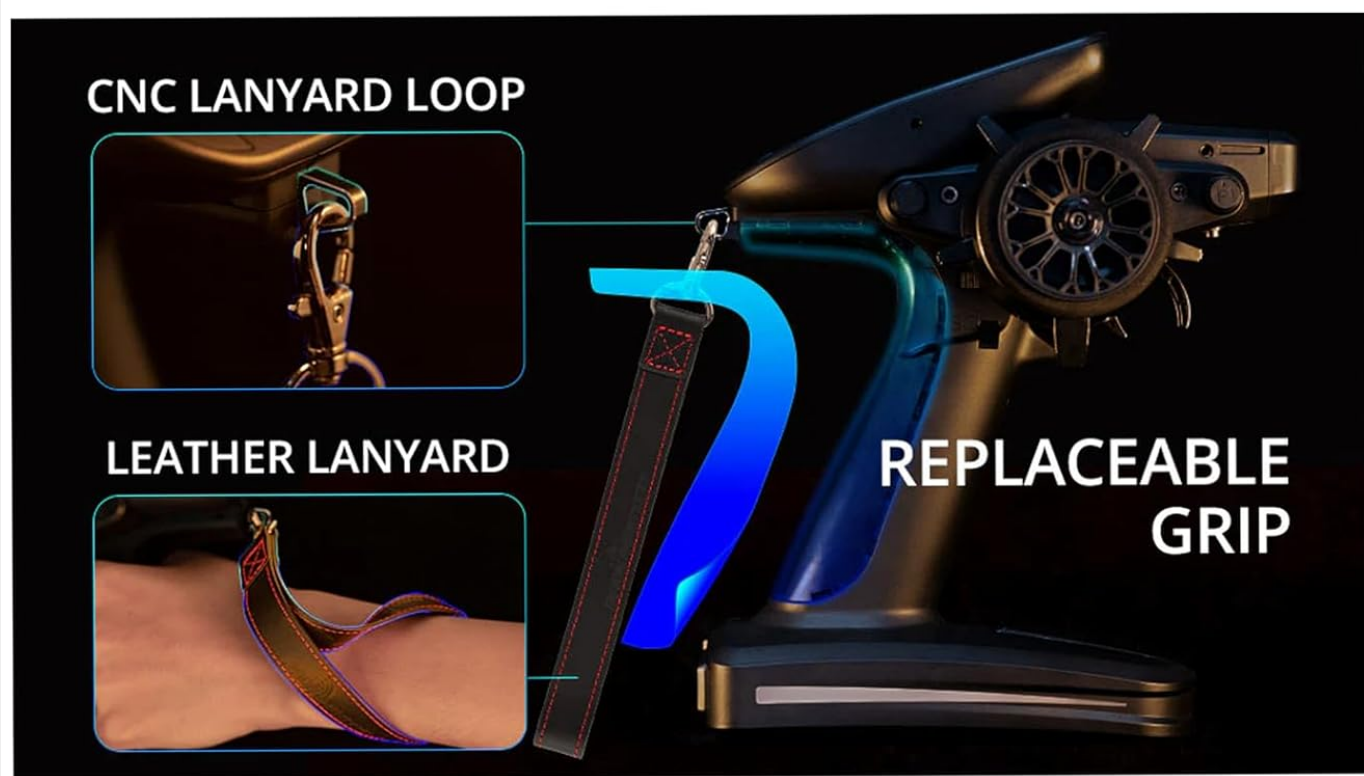


Figure 5.4: Examples of custom RGB lighting effects on the Radiomaster MT12, which can be configured via LUA scripts.

## 6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the controller. Avoid using harsh chemicals or abrasive materials.
- **Battery Care:** Store the controller in a cool, dry place. If storing for extended periods, remove the batteries or ensure they are charged to a storage voltage (typically 3.8V per cell for Li-ion).
- **Firmware Updates:** Periodically check the official EdgeTX and Radiomaster websites for firmware updates. Keeping your controller's firmware up-to-date ensures optimal performance, new features, and bug fixes.
- **Grip Replacement:** The MT12 features a replaceable grip. If the grip becomes worn or damaged, it can be



replaced.

## 7. TROUBLESHOOTING

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- **Controller Not Powering On:**
  - Ensure batteries are correctly installed and fully charged.
  - Check battery polarity.
  - Verify the power button is pressed and held sufficiently.
- **No Control Response from Model:**
  - Confirm the controller is successfully bound to the receiver.
  - Check that the receiver is powered on and correctly connected to the model's ESC/servos.
  - Verify model settings in EdgeTX match the receiver and model configuration.
  - Ensure the receiver's antenna is properly positioned and not obstructed.
- **Limited Range or Intermittent Signal:**
  - Check for environmental interference (e.g., Wi-Fi, other 2.4GHz devices).
  - Ensure the controller's internal antenna is not obstructed.
  - Verify the receiver's antenna placement on the model.
  - Consider updating firmware on both controller and receiver.
- **Display Issues or Software Glitches:**
  - Restart the controller.
  - Perform a factory reset (refer to EdgeTX documentation for procedure).
  - Update to the latest EdgeTX firmware.

## 8. SPECIFICATIONS

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### 8.1 Radiomaster MT12 Controller

| Feature                   | Detail                                                                            |
|---------------------------|-----------------------------------------------------------------------------------|
| Model                     | MT12                                                                              |
| Operating System          | EdgeTX                                                                            |
| Wireless Protocol Support | ExpressLRS, Multi-module project                                                  |
| Physical Inputs           | 10                                                                                |
| Channel Capability        | 16 or 32 channels                                                                 |
| Sensors                   | Non-contact Hall sensors (steering)                                               |
| Charging                  | USB-C, QC3.0 Fast Charging (up to 2.0A max)                                       |
| Battery Type              | 2 x 18650 Li-ion (not included)                                                   |
| Customization             | Customizable base switches/joystick, RGB lighting (LUA scripts), replaceable grip |

8.2 ER3C-i 2.4GHz ELRS PWM Receiver (Included with ExpressLRS version)

| Feature                         | Detail                                                           |
|---------------------------------|------------------------------------------------------------------|
| Item                            | ER3C-i 2.4GHz ELRS PWM Receiver                                  |
| Power Supply                    | DC 4.5 - 8.4V                                                    |
| Antenna Type                    | Built-in high-sensitivity ceramic antenna                        |
| Wireless Protocol               | ExpressLRS 3.3.0 pre-installed                                   |
| Output Channel                  | 3CH PWM                                                          |
| Telemetry Power                 | 10mW                                                             |
| Battery Voltage Detection Range | DC 4.0 - 35V                                                     |
| Weight                          | 4.2 grams                                                        |
| Dimensions                      | 26.1*18.5*13.0 mm                                                |
| Firmware                        | Device Category: Radiomaster 2.4Ghz / Device: RadioMaster ER3C-i |

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Radiomaster website or contact your authorized dealer. Keep your proof of purchase for any warranty claims.

**Manufacturer:** RADIOMASTER

**Recommended Age:** 18 years and up



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Related Documents - MT12

|  |                                                                                                                                                                                                                                                                                                                                                        |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><a href="#">RadioMaster MT12 Quick Start Guide: Features, Specifications, and Safety</a></p> <p>A comprehensive quick start guide for the RadioMaster MT12 radio system, covering its features, technical specifications, safety precautions, and regulatory compliance. Learn about model selection, firmware updates, and power requirements.</p> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

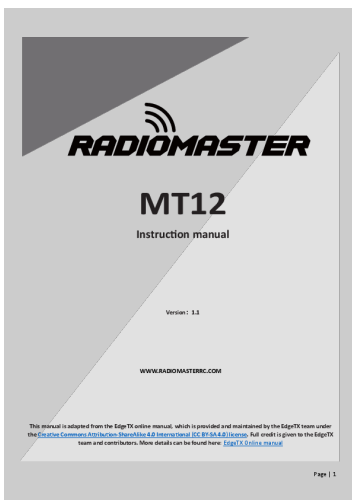
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <p><a href="#">RadioMaster MT12 Quick Start Guide: Features, Specifications, and Safety</a></p> <p>A comprehensive quick start guide for the RadioMaster MT12 radio system, covering its features, specifications, safety information, and setup instructions for both 4-in-1 multi-protocol and ExpressLRS modules. Learn about power requirements, model selection, and binding procedures.</p> |
|    | <p><a href="#">RadioMaster MT12 Quick Start Guide</a></p> <p>A concise guide to the RadioMaster MT12 surface radio system, covering its features, safety information, setup, and specifications.</p>                                                                                                                                                                                              |
|   | <p><a href="#">RadioMaster MT12 Instruction Manual: Setup and Features</a></p> <p>Explore the RadioMaster MT12, an advanced, versatile, and ergonomic RC radio controller running EdgeTX. This comprehensive manual covers its user interface, model configuration, inputs, mixes, outputs, telemetry, and advanced features, providing essential information for users of all skill levels.</p>  |
|  | <p><a href="#">RadioMaster MT12 Quick Start Guide: Setup, Features, and Safety</a></p> <p>Get started with your RadioMaster MT12 RC transmitter. This guide covers setup, specifications, safety precautions, binding, and firmware information for the advanced MT12 radio system.</p>                                                                                                           |
|  | <p><a href="#">RadioMaster MT12 Instruction Manual - Setup and Operation Guide</a></p> <p>Discover the RadioMaster MT12, a versatile and ergonomic RC transmitter powered by EdgeTX. This comprehensive instruction manual guides users through setup, features, safety, and operation for optimal performance.</p>                                                                               |



### [RadioMaster MT12 Quick Start Guide](#)

A concise guide to the RadioMaster MT12 surface radio system, covering its features, safety information, setup, and specifications.

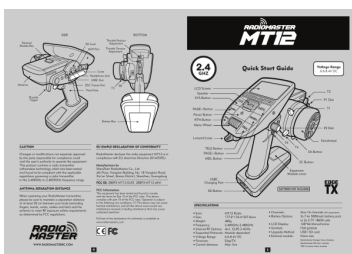
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### [RadioMaster MT12 Instruction Manual - Setup and Operation Guide](#)

Discover the RadioMaster MT12, a versatile and ergonomic RC transmitter powered by EdgeTX. This comprehensive instruction manual guides users through setup, features, safety, and operation for optimal performance.

lang:en **score:43** filesize: 1.67 M page\_count: 54 document date: 2023-12-19

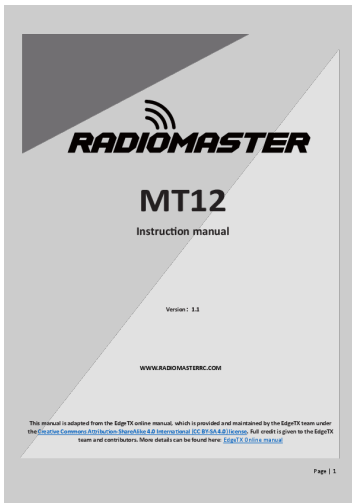


### [RadioMaster MT12 Quick Start Guide: Setup, Features, and Safety](#)

Get started with your RadioMaster MT12 RC transmitter. This guide covers setup, specifications, safety precautions, binding, and firmware information for the advanced MT12 radio system.

lang:en **score:41** filesize: 816.23 K page\_count: 4 document date: 2025-01-14





### [RadioMaster MT12 Instruction Manual - Comprehensive Guide](#)

Detailed instruction manual for the RadioMaster MT12 RC transmitter, covering setup, operation, features, and specifications. Learn to use EdgeTX firmware and advanced functions for your radio control models.

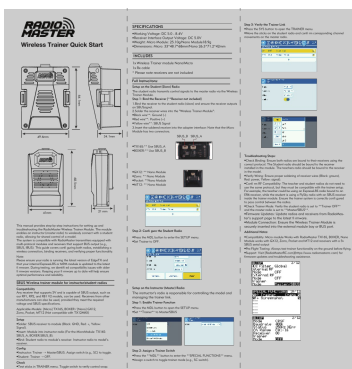
lang:en score:40 filesize: 1.76 M page\_count: 55 document date: 2023-12-23



### [RadioMaster MT12 Quick Start Guide: Features, Specifications, and Safety](#)

A comprehensive quick start guide for the RadioMaster MT12 radio system, covering its features, specifications, safety information, and setup instructions for both 4-in-1 multi-protocol and ExpressLRS modules. Learn about power requirements, model selection, and binding procedures.

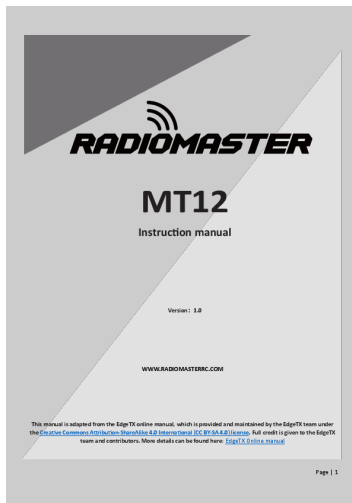
lang:en score:40 filesize: 5.78 M page\_count: 12 document date: 2023-12-26



### [RadioMaster Wireless Trainer Module Quick Start Guide](#)

A quick start guide for setting up and troubleshooting the RadioMaster Wireless Trainer Module, enabling wireless instructor-student connection for RC models. Covers compatibility, setup, and troubleshooting.

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lang:en score:33 filesize: 7.97 M page\_count: 2 document date: 2025-04-08

Shenzhen Radiomaster Co., Ltd

Section 2.911(d)(5)(j) Certification – Equipment Type

Company name : Shenzhen Radiomaster Co., Ltd  
Address : 407 Jiefang Building, Jiefang Street, Bao'an District, Shenzhen, Guangdong, China  
Product Name: M12  
FCC ID: 2009-M12-ELRS  
Model#: M12-ELRS

**2.911(d)(5)(j) Equipment Type**

We, (Shenzhen Radiomaster Co., Ltd) (the applicant) certify that the equipment for which authorization is sought through certification is not:

- Prohibited from receiving an equipment authorization pursuant to § 2.903; of the FCC rules.
- Labeled as an equipment type in the "Covered List" in 1.1.

Yours sincerely,

*Dawn Lee*  
Name: Dawn Lee

Date: 2023-2-19

Title and Company Name: General Manager | Shenzhen Radiomaster Co., Ltd

NOTE 1  
"Covered List" is the List of Equipment and Services Covered By Section 2 of The Service Networks Act, available at <https://www.fcc.gov/eetp/coveredservice>

References:  
1) FCC47 CFR 2.911(d)(5)(j) Covered Equipment ID:  
<https://www.fcc.gov/eetp/coveredservice/2022/20220209/pubs.htm#id=20220202>  
2) FCC's new database: <https://www.fcc.gov/eetp/coveredservice/2022/20220209/pubs.htm#id=20220202> against a national security threat by the case  
<https://www.fcc.gov/eetp/coveredservice/2022/20220209/pubs.htm#id=20220202>

2023.07.03 | Equipment Type Certification v.1.2

lang:en score:32 filesize: 94.15 K page\_count: 1 document date: 2023-12-19

lang:en score:32 filesize: 89.07 K page\_count: 1 document date: 2023-12-19

Shenzhen Radomaster Co., Ltd

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Section 2.911(d)(5)(i) Certification – Applicant (Covered List)

Company name: Shenzhen Radomaster Co., Ltd  
Address: 4F Yungang Building, Xixian Street, Bao'an District, Shenzhen, Guangdong, China  
Product Name: MT12  
FCC ID: 2BPP3-MT12-ELRS  
Model#: MT12-ELRS

**2.911(d)(5)(ii) Applicant filing**  
We, [Shenzhen Radomaster Co., Ltd (the "applicant")] certify that, as of the date of the filing of the application, the applicant is not identified "TM" on the "Covered List" TM<sup>1</sup>, established pursuant to § 1.50022 of this chapter, as an entity producing covered communications equipment.

Your identity:

Owen Lee

Name: Owen Lee Date: 2023-12-19

Title and Company name: General Manager | Shenzhen Radomaster Co., Ltd

NOTE 1  
Data are not applicable in this application.

NOTE 2  
"Covered List" is the List of Equipment and Services Covered By Section 2 of The Security Vexatious Act, available at <https://china.fcc.gov/fcc/en/section2>

References:  
1. FCC's 2020 E.O. Covered Document(s)  
<https://china.fcc.gov/fcc/en/section2> <https://china.fcc.gov/fcc/en/section2>

2. If a valid Register in force on 2022-2023 points has an ECD0203  
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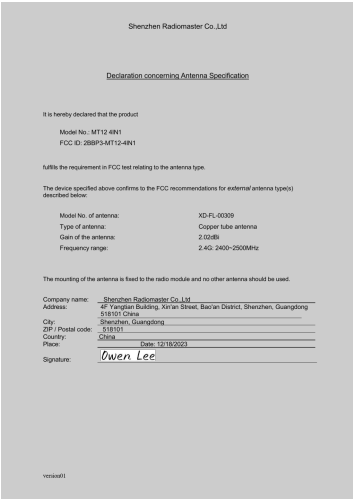
dell990 2 911 d 7 US Agent for Service of Process v1 3 Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS mt12 elrs

Shenzhen Radiomaster Co.,Ltd Section 2.911 d 7 USA Agent for Service of Process Company name: Shenzhen Radiomaster Co.,Ltd Address: 4F Yangtian Building, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China Product Name: **MT12** FCC ID: 2BBP3-**MT12**-ELR Model s : **MT12** ELRS 2.911 d 7 USA Design... lang:en **score:32** filesize: 97.28 K page\_count: 2 document date: 2023-12-26



[pdf] User Manual

MT12 Schnellstartanleitung Forum Rockcrawler.de Modulschacht Nanogröße RadioMaster Ranger Nano Modul RM 4in1 4 Betriebsspannung 6 8 V DC Betriebssystem EdgeTX Dieses Gerät Quick Start deutsch rockcrawler wcf attachment 1447762 mt12 quick start ||| Machine Translated by Google **MT12** Schnellstartanleitung WWW.RADIOMASTERRC.COM Machine Translated by Google Einföhrung Vielen Dank, dass Sie sich für das Funksystem RadioMaster **MT12** entschieden haben. Der **MT12** ist fortschrittlich und uerst vielseitig und lässt sich an Fahrer aller Kenntnisstufen anpassen... lang:de **score:32** filesize: 934.44 K page\_count: 10 document date: 2023-12-22



[pdf] Specifications Declaration of Conformity

17 MT12 4IN1 AntSpec p1 r1 Jessica Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12 4in1 Shenzhen Radiomaster Co.,Ltd Declaration concerning Antenna Specification It is hereby declared that the product Model No.: **MT12** 4IN1 FCC ID: 2BBP3-**MT12**-4IN1 fulfills the requirement in FCC test relating to the antenna type. The device specified above confirms to the FCC recommendations for exte... lang:en **score:31** filesize: 60.45 K page\_count: 1 document date: 2023-12-25



Signature: Owen Lee Date: 2023-12-22  
Name: Owen Lee  
Title: General Manager  
Company: Shenzhen Radiomaster Co., Ltd

lang:en score:30 filesize: 63.28 K page\_count: 1 document date: 2023-12-22

Signature \_\_\_\_\_  
 [Name of U.S. agent] Peter Zhang  
 The information provided in this letter is based on the referenced documents of Title 47 of the CFR, as well as EO D56446 D01.  
 An expiration date for this letter does not exist. In case the U.S. agent changes, the grantee is obligated to notify the PC Center 30 days via the reporting TCB.

lang:en score:30 filesize: 133.56 K page\_count: 2 document date: 2023-12-18

[General Manager]  
[Shenzhen Radiometer Co., Ltd.]

equipment prohibited from receiving an equipment authorization pursuant...

MT12 Bedienungsanleitung V1 1 Radiomaster Der Thread Fernsteuerung Rockcrawler de rockcrawler  
wcf file 1171290 |||

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Die v...

lang:de score:29 filesize: 4.17 M page count: 54 document date: 2023-12-22

Shenzhen Radiometer Co., Ltd

---

Office of Engineering Technology  
F&E Commission for Commission  
4202 Oakland Mills Road  
Folsom, CA 95630  
USA

Date: 2023-12-19

☐ Request for Confidentiality  
FCC ID: 2009-347125 (F&E)

To Whom It May Concern,  
Pursuant to the provisions of the Commission's rules Title 47 Section 63.457 and 63.459, we are requesting the Commission's withdrawal of the following attachments to confidential documents from public disclosure (redaction):

These documents contain design and equipment descriptions and are considered as proprietary information of operator of the equipment. The public disclosure of these documents might be used to copy and modify the computers in order advantage in the market.

- ☐ Schematic Diagram
- ☐ Block Diagram
- ☐ Operational Description
- ☐ TEST REPORT DESCRIPTION
- ☐ Test Log
- ☐ Test Log

In addition to above mentioned documents, in order to comply with the existing regulations in Title 47 CFR 63.563 and the information rules in Title 47 CFR 63.121-104, while ensuring that business and other information confidential with the actual market of many authorized users, we request Short Term Confidentiality of the following attachment(s):

- ☐ User Photos
- ☐ Test Station Photos
- ☐ Test Station Photos
- ☐ User Photos

☐ For 45 days, pursuant to Public Notice DA 04-1705.  
OR  
☐ For 180 days pursuant to FCC 728923 2010.

It is to be understanding that the information unequivocally cannot be given to confidential documents and this information will be available for public review once the grant of equipment authorization is issued.

Sincerely,  
  
  
Signature: Owen Lee  
Name: Owen Lee  
Title: General Manager

Fiona Ffuellenbach FCC Short Long Term Confidentiality Request Shenzhen Radiomaster Co Ltd MT12  
ELRS 2BBP3 2BBP3MT12ELRS mt12 elrs

Shenzhen Radiomaster Co.,Ltd Office of Engineering Technology Federal  
Communications Commission 7435 Oakland Mills Road Columbia, MD 21046 USA  
Subject; Request for Confidentiality FCC ID: 2BBP3-**MT12**-ELRS Date: 2023-12-19  
To Whom It May Concern, Pursuant to the provisions of the Commission s rules...  
lang:en score:27 filesize: 46.07 K page count: 1 document date: 2023-12-19

[illegible]

Concise guide to setting up and using the RadioMaster Wireless Trainer Module for instructor-student RC radio control, covering compatibility, configuration, and troubleshooting.

lang:en score:27 filesize: 7.97 M page count: 2 document date: 2025-04-08

|                                                |           |           |
|------------------------------------------------|-----------|-----------|
| S e n e n d e a n a t n E e n t . L t .        |           |           |
| 产品规格承认书                                        |           |           |
| 德威玛天线实验室                                       |           |           |
| 深圳研发中心                                         |           |           |
| 移动通信终端天线                                       |           |           |
| 客户名称: S e n e n R a a t e r . L t              |           |           |
| 产品名称: 2 4 G e r t e a n t e n n a              |           |           |
| 物料编码: X D - P L - 0 0 3 0 9                    |           |           |
| n t r a t r 日期: 2023 年 12 月 04 日               |           |           |
| R F                                            | t r t r e | r e o a t |
| 陈显叶                                            | 张英林       | 余奇芳 吴春彦   |
| 客户方 日期: 年 月 日                                  |           |           |
| 结论                                             | 确认人       | 审核人       |
|                                                |           |           |
| 地址: 深圳市宝安区创业一路23区友联大厦一楼301<br>(地铁洪湾站北出口平安银行对面) |           |           |
| 电话: 13603094265                                |           |           |
| 审发专用章                                          |           |           |

第 1 页 共 01 页

byd 17 MT12 4IN1 AntSpec p2 r1 Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12 4in1  
Shenzhen Deweima Communication Equipment Co., Ltd. : RF Shenzhen Radiomaster  
Co.,Ltd 2.4G copper tube antenna XD-FL-00309 Contractor 2023 12 04 structure  
review quality : 23 3 B :13603094246 1 10 Shenzhen Deweima Communication  
Equipment Co., Ltd. 1.P...

lang:en score:21 filesize: 817.84 K page count: 9 document date: 2023-12-21

S e n e n D e e a n a t n E e n t . L t .

产品规格承认书

德威玛天线实验室  
深圳研发中心  
移动通信终端天线

客户名称: S e n e n R a a t e r . L t .  
产品名称: 2.4G External antenna  
物料编码: XD-FL-00309

| n t r a t r |           |       |     | 日期: 2023 年 12 月 04 日 |
|-------------|-----------|-------|-----|----------------------|
| RF          | t r t r e | r e e | a t |                      |
| 陈立叶         | 陈燕燕       | 余浩宇   | 高春秀 |                      |

| 客户方 |     |     | 日期: 年 月 日 |
|-----|-----|-----|-----------|
| 结论  | 确认人 | 审核人 |           |
|     |     |     |           |

地址: 深圳市宝安大道二一三三 区友邦大厦 一栋 3 楼  
(地铁洪浪北 B 出口平安银行后面)  
电话: 13000094265

第 1 页 共 10 页

[pdf] Specifications Test Report

byd ant test report 2 4G Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS mt12 elrs  
Shenzhen Deweima Communication Equipment Co., Ltd. : RF Shenzhen Radiomaster  
Co.,Ltd 2.4G External antenna XD-FL-00309 Contractor 2023 12 04 structure review  
quality : 23 3 B :13603094246 1 10 Shenzhen Deweima Communication Equipment  
Co., Ltd. 1.Purpo...

lang:en score:18 filesize: 802.4 K page\_count: 9 document date: 2023-12-14



[pdf] Label

06 MT12 4IN1 LabelSmpl US Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12 4in1  
Label Location On EUT Label ...

lang:en score:14 filesize: 65.76 K page\_count: 1 document date: 2023-12-18



[pdf] Product Photos Teardown

Figure 5 anbotek Internal Photos Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS  
mt12 elrs

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lang:en score:13 filesize: 1.88 M page\_count: 7 document date: 2023-12-19



[pdf]

FCC 15 247 BDR EDR Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS mt12 elrs

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lang:en score:13 filesize: 1.76 M page\_count: 33 document date: 2023-12-22



[pdf] Label

Label Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS mt12 elrs

Label Location On EUT Label ...

lang:en score:13 filesize: 66.62 K page\_count: 1 document date: 2023-12-13



[pdf] Product Photos

Figure 5 anbotek External Photos Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS mt12 elrs

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lang:en score:13 filesize: 911.74 K page\_count: 4 document date: 2023-12-19

|                                   |                 |              |                    |            |  |  |
|-----------------------------------|-----------------|--------------|--------------------|------------|--|--|
| <b>Anbotech</b><br>Product Safety |                 | Page 1 of 52 |                    |            |  |  |
| Appendix Test Data                |                 |              |                    |            |  |  |
| Report No.:                       | 18220WC30183801 |              | Test Sample No.:   | 1-2-2      |  |  |
| Start Test Date:                  | 2023.11.06      |              | Finish Test Date:  | 2023.11.06 |  |  |
| Test Engineer:                    | Jayme, C.A.K.   |              | Auditor:           | NICK JAW   |  |  |
| Temperature:                      | 25.6°C          |              | Relative Humidity: | 48%        |  |  |
| Pressure:                         | 1019Pa          |              |                    |            |  |  |

Appendix A: 20dB Emission Bandwidth

Test Result

| Testbed | Antenna | Frequency(MHz) | 20dB Emission Bandwidth (MHz) | F13dB1  | F13dB2  | Limit(MHz) | Verdict |
|---------|---------|----------------|-------------------------------|---------|---------|------------|---------|
| DHS     | Ant1    | 2402           | 1.03                          | 2441.46 | 2442.51 | —          | —       |
|         |         | 2441           | 0.96                          | 2441.53 | 2441.58 | —          | —       |
|         |         | 2402           | 0.98                          | 2479.50 | 2480.49 | —          | —       |
|         |         | 2441           | 1.29                          | 2441.58 | 2442.65 | —          | —       |
| DHS     | Ant1    | 2441           | 1.29                          | 2442.36 | 2441.62 | —          | —       |
|         |         | 2402           | 1.38                          | 2479.52 | 2480.49 | —          | —       |
|         |         | 2402           | 1.31                          | 2441.35 | 2442.68 | —          | —       |
|         |         | 2441           | 1.33                          | 2441.33 | 2441.65 | —          | —       |
| DHS     | Ant1    | 2402           | 1.30                          | 2479.50 | 2480.49 | —          | —       |

Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F, Building C, Digital Science Park, Jiahua Road, Bao'an District, Shenzhen, Guangdong, China.  
Tel: 86-0755-28864668 Fax: 86-0755-28814172 E-mail: service@anbotech.com



115152  
Code: AB-RF-05-2  
115152  
1400-000-0000  
www.anbotech.com.cn



[pdf]

Tonscend FCC BT Appendix Data Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS  
mt12 elrs

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lang:en score:13 filesize: 3.36 M page\_count: 52 document date: 2023-12-19

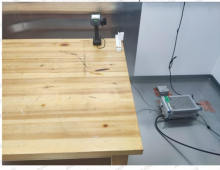
|                                                                                                                                                                                       |                                                                                  |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------|
| <b>Anbotech</b><br>Product Safety                                                                                                                                                     |                                                                                  | Page 1 of 58            |
| Report No.:                                                                                                                                                                           | 18220WC30184201                                                                  | FCC ID: 2BBP3-MT12-4IN1 |
| FCC Test Report                                                                                                                                                                       |                                                                                  |                         |
| Applicant                                                                                                                                                                             | Shenzhen Radiomaster Co.,Ltd                                                     |                         |
| Address                                                                                                                                                                               | 4F Yangtian Building, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China |                         |
| Product Name                                                                                                                                                                          | MT12                                                                             |                         |
| Report Date                                                                                                                                                                           | Dec. 18, 2023                                                                    |                         |
| Shenzhen Anbotech Compliance Laboratory Limited                                                                                                                                       |                                                                                  |                         |
| Address: 1/F, Building C, Digital Science Park, Jiahua Road, Bao'an District, Shenzhen, Guangdong, China.<br>Tel: 86-0755-28864668 Fax: 86-0755-28814172 E-mail: service@anbotech.com |                                                                                  |                         |
| 115152                                                                                                                                                                                |                                                                                  |                         |
| Code: AB-RF-05-2                                                                                                                                                                      |                                                                                  |                         |
| 115152                                                                                                                                                                                |                                                                                  |                         |
| 1400-000-0000                                                                                                                                                                         |                                                                                  |                         |
| www.anbotech.com.cn                                                                                                                                                                   |                                                                                  |                         |

[pdf]

14 MT12 4IN1 TestRpt DSS FHSS r1 Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12 4in1

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lang:en score:13 filesize: 4.28 M page\_count: 58 document date: 2023-12-22

|                                                                                                                                                                                       |               |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|
| <b>Anbotech</b><br>Product Safety                                                                                                                                                     |               | Page 1 of 2 |
| Project No.:                                                                                                                                                                          | 18220WC301842 |             |
| Appendix I - Test Setup Photograph                                                                                                                                                    |               |             |
| Conducted Emission at AC power line                                                                                                                                                   |               |             |
|                                                                                                    |               |             |
| Photo of Radiation Emission Test (Below 1GHz)                                                                                                                                         |               |             |
|                                                                                                    |               |             |
| Shenzhen Anbotech Compliance Laboratory Limited                                                                                                                                       |               |             |
| Address: 1/F, Building C, Digital Science Park, Jiahua Road, Bao'an District, Shenzhen, Guangdong, China.<br>Tel: 86-0755-28864668 Fax: 86-0755-28814172 E-mail: service@anbotech.com |               |             |
| 115152                                                                                                                                                                                |               |             |
| Code: AB-RF-05-2                                                                                                                                                                      |               |             |
| 115152                                                                                                                                                                                |               |             |
| 1400-000-0000                                                                                                                                                                         |               |             |
| www.anbotech.com.cn                                                                                                                                                                   |               |             |

[pdf]

Figure 5 anbotech 10 MT12 4IN1 TSup Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12  
4in1

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[pdf]

Figure 5 anbotek 08 MT12 4IN1 ExtPho Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12 4in1

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lang:en score:13 filesize: 2.78 M page\_count: 4 document date: 2023-12-18

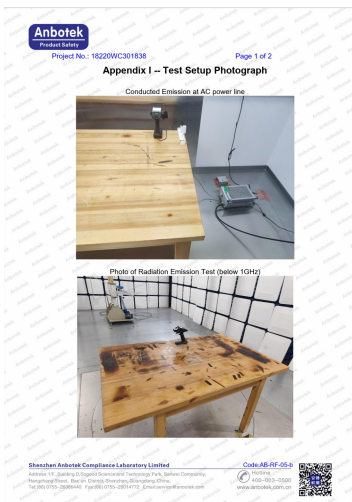


[pdf]

Figure 5 anbotek 09 MT12 4IN1 IntPho Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12 4in1

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lang:en score:13 filesize: 1.08 M page\_count: 9 document date: 2023-12-18

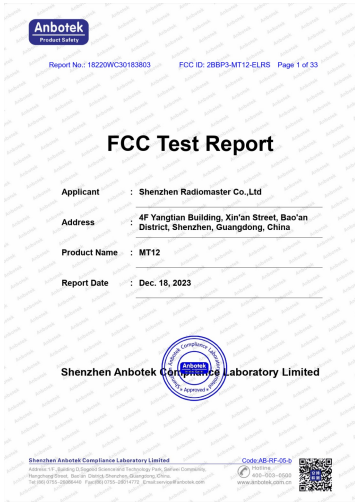


[pdf] Product Photos

Figure 5 anbotek Test Setup Photos Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS mt12 elrs

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lang:en score:13 filesize: 1.95 M page\_count: 2 document date: 2023-12-19



[pdf]

Report FCC 15 247 2 4G FHSS DS Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3  
2BBP3MT12ELRS mt12 elrs

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lang:en score:13 filesize: 1.67 M page\_count: 33 document date: 2023-12-22

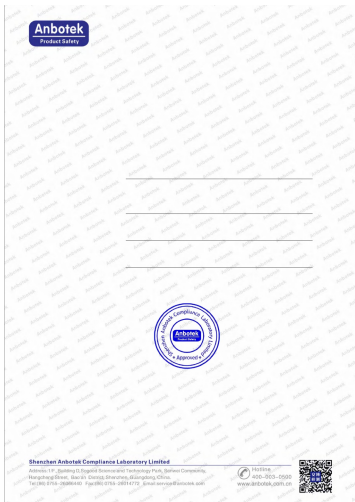


[pdf] Product Photos SAR Rating

Test Setup Photos SAR Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS mt12  
elrs

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lang:en score:13 filesize: 325.29 K page\_count: 1 document date: 2023-12-22



[pdf] SAR Rating

FCC SAR Report Part1 Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS mt12  
elrs

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lang:en score:13 filesize: 5.14 M page\_count: 49 document date: 2023-12-26

Anbotech

Product Safety

Report No.: 18220WC30183802

FCC ID: 2BBP3-MT12-ELRS

Page 1 of 33

FCC Test Report

Applicant

: Shenzhen Radiomaster Co.,Ltd

Address

: 4F Yanglian Building, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China

Product Name

: MT12

Report Date

: Dec. 18, 2023

Shenzhen Anbotech Compliance Laboratory Limited

Shenzhen Anbotech Compliance Laboratory Limited

Address: 17, Jiahua Road, Jiahua Industrial Zone, Longgang District, Shenzhen, Guangdong, China  
Postcode: 518108, Tel: 86-755-25984848, Fax: 86-755-25984849, Email: info@anbotech.com.cn  
Website: www.anbotech.com.cn

Order: AB-RF-06-9

18101030 4101-003-0030  
www.anbotech.com.cn

Shenzhen Anbotech Compliance Laboratory Limited

Address: 17, Jiahua Road, Jiahua Industrial Zone, Longgang District, Shenzhen, Guangdong, China  
Postcode: 518108, Tel: 86-755-25984848, Fax: 86-755-25984849, Email: info@anbotech.com.cn  
Website: www.anbotech.com.cn

Order: AB-RF-06-9

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[pdf]

Report FCC 15 247 Wi Fi 2 4G Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS mt12 elrs

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lang:en score:13 filesize: 1.28 M page\_count: 33 document date: 2023-12-22

Anbotech

Product Safety

Page 1 of 26

Appendix Test Data

Report No.:

18220WC30184201

Test Sample No.:

1-2-2

Start Test Date:

2023.10.17

Finish Test Date:

2023.11.21

Test Engineer:

Hajime Chen

Auditor:

Wick Lee

Temperature:

25.5°C

Relative Humidity:

43%

Pressure:

1019Pa

Appendix A: 20dB Emission Bandwidth

Test Result

| Sublot | Antenna | Frequency(BHz) | 20dB Emission Bandwidth | FLBW(dB) | F1BW(dB) | L1BW(dB) | Verdict |
|--------|---------|----------------|-------------------------|----------|----------|----------|---------|
| 2-40   | Ant1    | 2403.94        | 0.998                   | 2403.883 | 2403.902 | ---      | ---     |
|        |         | 2406.40        | 0.998                   | 2406.373 | 2406.412 | ---      | ---     |
|        |         | 2419.94        | 0.998                   | 2419.864 | 2419.963 | ---      | ---     |

Shenzhen Anbotech Compliance Laboratory Limited

Address: 17, Jiahua Road, Jiahua Industrial Zone, Longgang District, Shenzhen, Guangdong, China  
Postcode: 518108, Tel: 86-755-25984848, Fax: 86-755-25984849, Email: info@anbotech.com.cn  
Website: www.anbotech.com.cn

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Postcode: 518108, Tel: 86-755-25984848, Fax: 86-755-25984849, Email: info@anbotech.com.cn  
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[pdf]

Tonscend 14 MT12 4IN1 TestRpt DSS Appendix Data CC2500 D8 Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12 4in1

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lang:en score:13 filesize: 4.54 M page\_count: 26 document date: 2023-12-18

Anbotech

Product Safety

Page 1 of 26

Appendix Test Data

Report No.:

18220WC30184201

Test Sample No.:

1-2-2

Start Test Date:

2023.10.17

Finish Test Date:

2023.11.21

Test Engineer:

Hajime Chen

Auditor:

Wick Lee

Temperature:

25.5°C

Relative Humidity:

43%

Pressure:

1019Pa

Appendix A: 20dB Emission Bandwidth

Test Result

| Sublot | Antenna | Frequency(BHz) | 20dB Emission Bandwidth | FLBW(dB) | F1BW(dB) | L1BW(dB) | Verdict |
|--------|---------|----------------|-------------------------|----------|----------|----------|---------|
| 2-40   | Ant1    | 2418           | 1.254                   | 2417.373 | 2418.627 | ---      | ---     |
|        |         | 2431.2         | 1.289                   | 2430.493 | 2431.974 | ---      | ---     |
|        |         | 2459.2         | 1.277                   | 2458.318 | 2459.695 | ---      | ---     |

Shenzhen Anbotech Compliance Laboratory Limited

Address: 17, Jiahua Road, Jiahua Industrial Zone, Longgang District, Shenzhen, Guangdong, China  
Postcode: 518108, Tel: 86-755-25984848, Fax: 86-755-25984849, Email: info@anbotech.com.cn  
Website: www.anbotech.com.cn

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Address: 17, Jiahua Road, Jiahua Industrial Zone, Longgang District, Shenzhen, Guangdong, China  
Postcode: 518108, Tel: 86-755-25984848, Fax: 86-755-25984849, Email: info@anbotech.com.cn  
Website: www.anbotech.com.cn

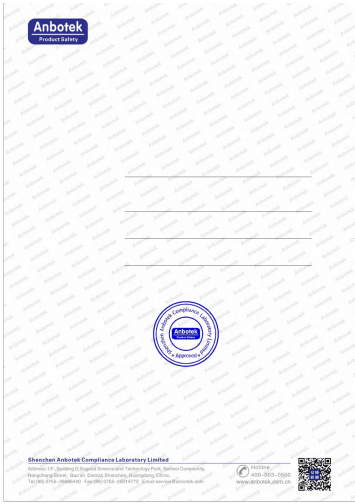
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www.anbotech.com.cn

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Tonscend 14 MT12 4IN1 TestRpt DSS Appendix Data 24L01 BUGSMINI Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12 4in1

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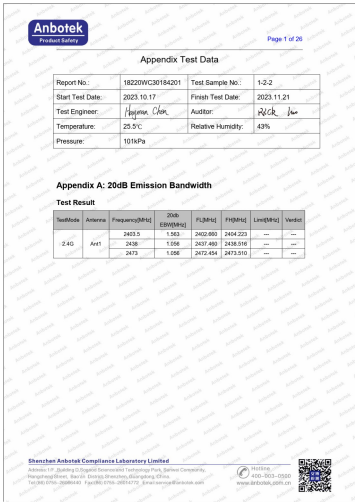


[pdf]

18 MT12 4IN1 RFExp p1 r1 Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12 4in1

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lang:en score:13 filesize: 4.52 M page\_count: 45 document date: 2023-12-22



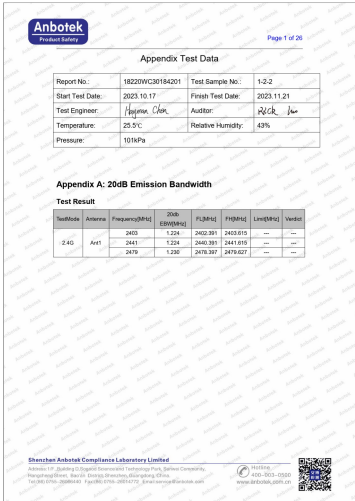
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Tonscend 14 MT12 4IN1 TestRpt DSS Appendix Data A7105 FLYSKY r1 Shenzhen Radiomaster Co Ltd

2BBP3 2BBP3MT124IN1 mt12 4in1

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lang:en score:13 filesize: 4.49 M page\_count: 26 document date: 2023-12-22



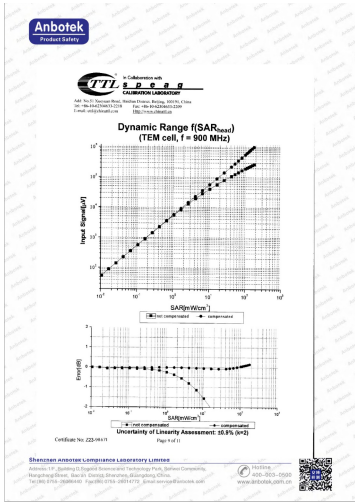
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Tonscend 14 MT12 4IN1 TestRpt DSS Appendix Data 6936 MLINK r1 Shenzhen Radiomaster Co Ltd

2BBP3 2BBP3MT124IN1 mt12 4in1

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lang:en score:13 filesize: 4.49 M page\_count: 26 document date: 2023-12-22

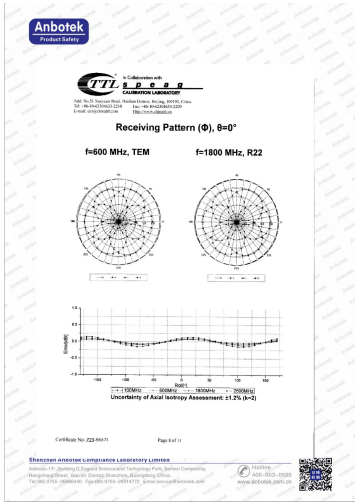


[pdf] SAR Rating

129 Sky123 Org FCC SAR Report Part2 Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3 2BBP3MT12ELRS mt12 elrs

...

lang:en score:12 filesize: 4.01 M page\_count: 17 document date: 2023-12-26

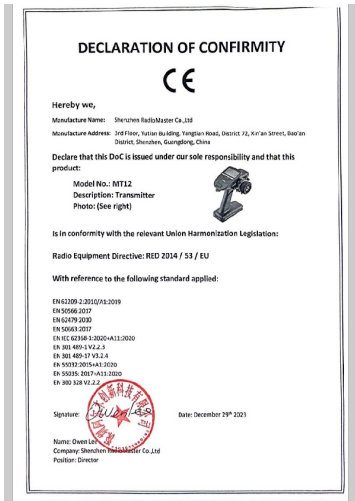


[pdf]

116 Sky123 Org 18 MT12 4IN1 RFExp p2 r1 Shenzhen Radiomaster Co Ltd 2BBP3 2BBP3MT124IN1 mt12 4in1

...

lang:en score:12 filesize: 4.53 M page\_count: 18 document date: 2023-12-22



[pdf] Declaration of Conformity

DECLARATION OF CONFORMITY RadioMaster MT12Certification Document RCDECLARATION CONFIRMITY MT12cdn shopify s files 1 0609 8324 7079 MT12 v 1710493235 |||

...

lang:en score:12 filesize: 112.77 K page\_count: 1 document date: 2024-03-15

|                                  |                 |                    |              |
|----------------------------------|-----------------|--------------------|--------------|
| <b>Anbotek</b><br>Product Safety |                 | Page 1 of 26       |              |
| Appendix Test Data               |                 |                    |              |
| Report No.:                      | 18220WC30183803 | Test Sample No.:   | 1-2-2        |
| Start Test Date:                 | 2023.10.17      | Finish Test Date:  | 2023.10.24   |
| Test Engineer:                   | Li Jiaxin, CMAA | Auditor:           | Wu Chao, JAW |
| Temperature:                     | 25.6°C          | Relative Humidity: | 48.2%        |
| Pressure:                        | 101kPa          |                    |              |

|                                     |         |                |                    |         |         |            |         |
|-------------------------------------|---------|----------------|--------------------|---------|---------|------------|---------|
| Appendix A: 20dB Emission Bandwidth |         |                |                    |         |         |            |         |
| Test Result                         |         |                |                    |         |         |            |         |
| TestMode                            | Antenna | Frequency(MHz) | Sub-Bandwidth(MHz) | F1(MHz) | F2(MHz) | Limit(MHz) | Verdict |
| 2.4G                                | Ant1    | 2402.4         | 0.747              | 2402.03 | 2402.78 | ---        | ---     |
|                                     |         | 2441.4         | 0.757              | 2441.02 | 2441.80 | ---        | ---     |
|                                     |         | 2479.4         | 0.753              | 2479.03 | 2479.78 | ---        | ---     |

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Tonscend FCC 2 4G Appendix Data Shenzhen Radiomaster Co Ltd MT12 ELRS 2BBP3  
2BBP3MT12ELRS mt12 elrs

Report No.: Start Test Date: Test Engineer: Temperature: Pressure: Appendix Test  
Data Page 1 of 26 18220WC30183803 Test Sample No.: 2023.10.17 Finish Test  
Date: Auditor: 25.6 Relative Humidity: 101kPa 1-2-2 2023.10.24 48.2 Appendix A:  
20dB Emission Bandwidth Test Result TestMode Antenn...

lang:en score:9 filesize: 2.68 M page\_count: 26 document date: 2023-12-26