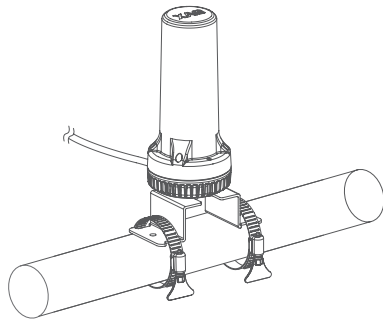


# XAG XRE1 Range Extender

## User Manual

Version 1.0 **EN**



### To User

Dear user, thank you for choosing XAG's products.  
For safety purposes and better user experience, it is highly recommended that you read this manual carefully and strictly follow the instructions hereof.

### Contact Us

Manufacturer: Guangzhou Xaircraft Technology Co., Ltd.  
Add: XSpace, No.115, Gaopu Road, Guangzhou, Guangdong Province, China  
Technical Support Team: support@xa.com

### Download User Manual

Scan the QR code below to read/download the full electronic version of the User Manual, which includes details on the introduction, main components, installation, usage instructions, maintenance, and disclaimers of the XRE1 Range Extender. Please read it carefully before use.



#### Note

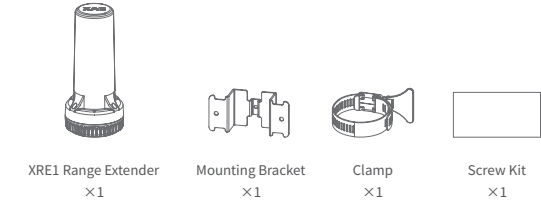
The User Manual will be updated on a regular basis in electronic form. You can scan the QR code to read or download the latest version.

### Introduction

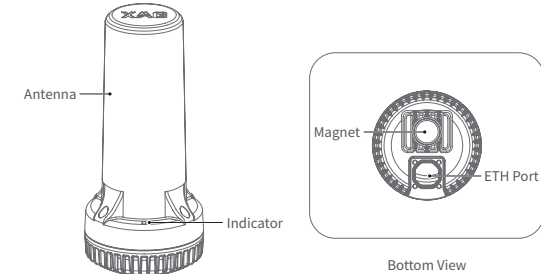
The XAG XRE1 Range Extender is an add-on to the XAG AutoPilot Console, designed to extend the wireless communication range of the autopilot console mainframe. Together with an RTK mobile base station, it enables operation in areas without network coverage.

### List of Items

Please see that all of the following items are present when unpacking the box. Should there be any item missing, please contact your seller immediately.



### Main Components



### How to Use

For detailed installation steps and precautions, please scan the QR code on page 1 to download and view the XAG XRE1 Range Extender User Manual.

### Specifications

Model	M3ACM1A
Dimensions	73×73×161 mm
Rated Voltage	12V~24V
Maximum Voltage	32V
Minimum Voltage	9V
Power Consumption	2.5W
Operating Frequency	2.400~2.467 GHz; 5.725~5.850 GHz
Effective Isotropic Radiated Power (EIRP)	2.400~2.467 GHz: ≤ 20 dBm 5.725~5.850 GHz: ≤ 33 dBm
Operating Temperature	-20℃~70℃
Storage Temperature	-40℃~85℃
Protection Rating	IP67
Compatibility	XAG APC2 AutoPilot Console XAG APC3 AutoPilot Console

FCC Compliance Notice

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This equipment complies with FCC and Canada radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**EU Compliance Statement:** Guangzhou Xaircraft Technology CO.,LTD.All Rights Reserved.hereby declares that this device is in compliance with the essential requirements and other relevant provisions of the RED Directive. This equipment must be installed and operated in accordance with provide instructions and the antenna used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operation in conjunction with any other antenna or transmitter.End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.



Warning: Operation of this equipment in a residential environment could cause radio interference.

“Hereby, *[Guangzhou Xaircraft Technology CO.,LTD.]*, declares that this *[XRE1 Range Extender]* is in compliance with the essential requirements and other relevant provisions of 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:  
*www.xa.com/en/service/downloads”*

*Suppliers Name(EU): NIK ELECTRONICS LTD*  
*Suppliers Address (EU) : Sofia, 11B Brussels Blvd., fl.13*  
*Suppliers phone number and / or internet contact information: 00359899952228*

**KCC Warning Message**  
이 기기는 업무용 환경에서 사용 할 목적으로 적합성 평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파 간섭의 우려가 있습니다 .

**FCC Supplier's Declaration of Conformity**  
*Brand name / model number: M3ACM1A*  
*This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.*

*Suppliers Name(FCC): Pegasus Spray Inc*  
*Suppliers Address (FCC): 2235 79th Ave NE, Medina, WA 98039, USA*  
*Suppliers phone number and / or internet contact information: +1 (503) 866-1228*

NCC statement

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to a approved low power radio-frequency devices. The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Management Act. The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

減少電磁波影響，請妥適使用。  
電波功率密度 MPE 標準值：0.9mW/cm<sup>2</sup>，送測產品實測值： 0.088 mW/cm<sup>2</sup>，建議使用時設備天線至少距離人體 20 公分。  
警告使用者：此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻騷動，在此種情況下，使用者會被要求採取某些適當的對策。  
取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用， 前述合法通信，指依電信管理法規定作業之無線電通信低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Product Certification

<b>Executive Standard:</b> Q/JF 063-2024
<b>The Product is Qualified According to the Delivery Inspection</b>
<b>Inspection Stamp</b>
<b>Product Name:</b> XAG XRE1 Range Extender
<b>Product Model:</b> M3ACM1A
<b>Manufacturing No.:</b>
<b>Manufacturer:</b> Guangzhou Xaircraft Technology Co., Ltd.
<b>Commissioned Manufacturer:</b> Dongguan Xaircraft UAS Technology Co., Ltd.
<b>EX-Factory Date:</b>
<b>Inspector:</b>
<ul style="list-style-type: none"><li>This certificates must accompany with the product and should be kept properly.</li></ul> ©Guangzhou Xaircraft Technology CO.,LTD. All Rights Reserved.