

Communication Port EAP-CP8



Shanghai Cross Stars Cultural Technology LLC., Co.

1. Product Introduction	3
2. Product Main Characteristics	3
3. Product Description	3
4. Product Parameter Description	4

1. Product Introduction

The equipment supports the gigabit Ethernet to ensure wireless high-speed transmission; it is deployed simply with PoE remote power supply. The device housing fully supports enclosed waterproof, moisture-proof, dust-proof, fireproof, sunscreen, etc. with the highest protection level of IP 68.

2. Product Main Characteristics

- Excellent outdoor adaptability: The product supports fully enclosed waterproof, moisture-proof, dust-proof, fire prevention, sun protection, etc. with the ultra-high protection level IP68.
- High efficient transfer: Device supports the gigabit Ethernet and the WiFi channels support to be changed easily. The data transmission rate is up to 3Gbps to make sure the high-speed wireless transmission.
- Directional antenna: The transmission power of the built-in directional antenna can be adjusted easily. The antenna covers a certain area to meet the wireless coverage requirement of UAV.

3. Product Description

The Communication Port, as an important accessory of the CROSS STARS III UAV, ensures the safety of the whole communication network of the UAV. The overall weight is 2.25kg, the size is 242 * 242 * 68mm, and the network port is compatible with POW power supply. The device contains the following components, as shown in the figure as below:



1. **Transmission Unit:** It can be adjusted the power and frequency by the software configuration tool to meet the compliance requirements of each country. The directional antenna transmits the signals to the UAV long distance.
2. **Ethernet port:** The speed of the port supports the gigabit and 100M ethernet to meet the different Scenario. The port supports the POE power supply to reduce deployment complexity.
3. **Housing:** With the IP68 protection level, it can work in extreme harsh environments.

4. Product Parameter Description

The Communication Port (EAP-CP8) is an important supporting ground equipment for the CROSS STARS III UAV. It is a bridge of the WiFi network to establish the WiFi communication between the aircraft and the ground station. The detailed parameters as below:

Communication Port EAP-CP8 Product Parameter Table

Num	Item	Parameter
1	Overall weight	2.25kg
2	Size	242*242*68mm
3	Power supply	48VDC/0.53A
4	Power	≤25W
5	Transmitting power	≤20dBm
6	Antenna	The directional antenna
7	IP Grade	IP68
8	Wireless frequency	WIFI: 5.18-5.24GHz(MIC) 5.18-5.24GHz,5.745-5.825GHz(CE/UKCA/FCC) 2.412-2.462GHz(FCC) 2.412-2.472GHz(CE/UKCA/MIC)
9	Operating temperature	-40℃ ~ 70℃

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

FCC Statement: 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 in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The equipment complies with FCC Radiation exposure limit set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.