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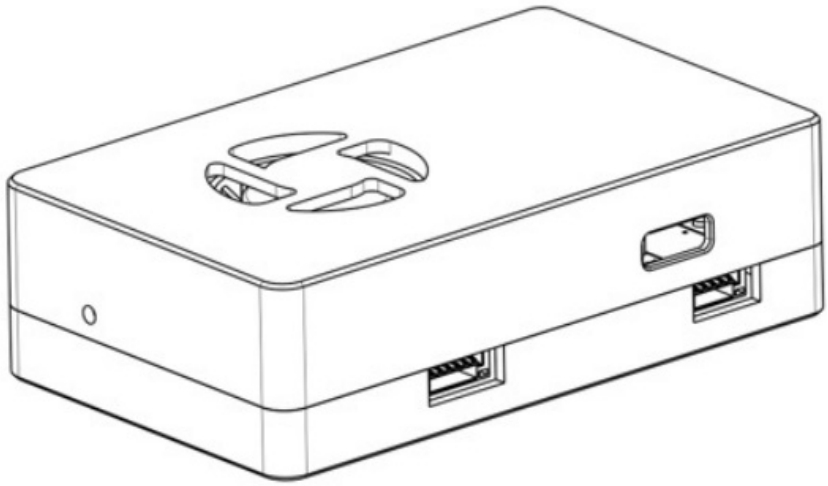
NURLMCH ENPULSE M2 Wireless Communication Module



Product Usage Instructions

Introduction

The Enpulse M2 utilizes NURLMCH INC. industry video transmission technology, combining video, data, and control functionalities into one device. It offers high freedom and mobility in distance and space without wire control restrictions.

Features

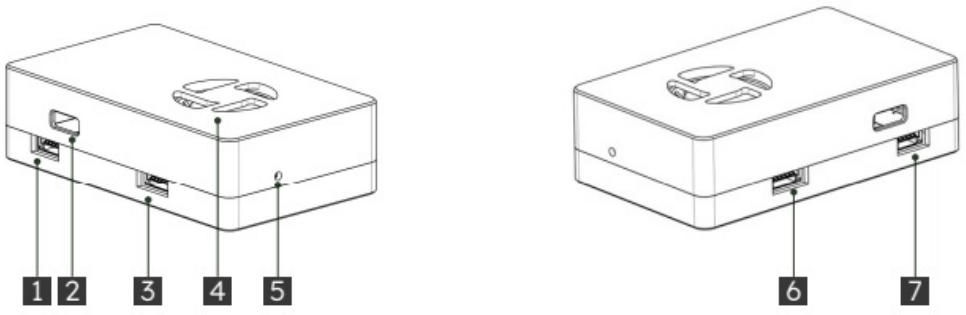
The device supports 4K resolution video data streams with ultra-high bandwidth and bit stream capabilities. It provides a low delay of 200ms screen-to-screen and sensitive control to meet real-time video data requirements. The Enpulse M2 supports H265/H264 video compression and AES encryption for secure transmissions.

Product Profile

Introduction

- Enpulse M2 uses NURLMCH INC. industry video transmission technology, video, data, and control three-in-one. End-to-end equipment is not restricted by wire control, and maintains a high degree of freedom and mobility in space and distance. With the complete function buttons of the remote control, the operation and setting of the aircraft and the camera can be completed within a maximum communication distance of 15 kilometers.
- Ultra-high bandwidth and bit stream support can easily cope with 4K resolution video data streams. The 200ms screen-to-screen low delay and delay jitter sensitive control are better, which meets the end-to-end real-time requirements of video data. Support H265/H264 video compression, AES encryption.
- The adaptive retransmission mechanism implemented at the bottom layer is not only much better than the application layer retransmission mechanism in terms of efficiency and delay, but also greatly improves the performance and user experience of the link in an interference environment.

Diagram

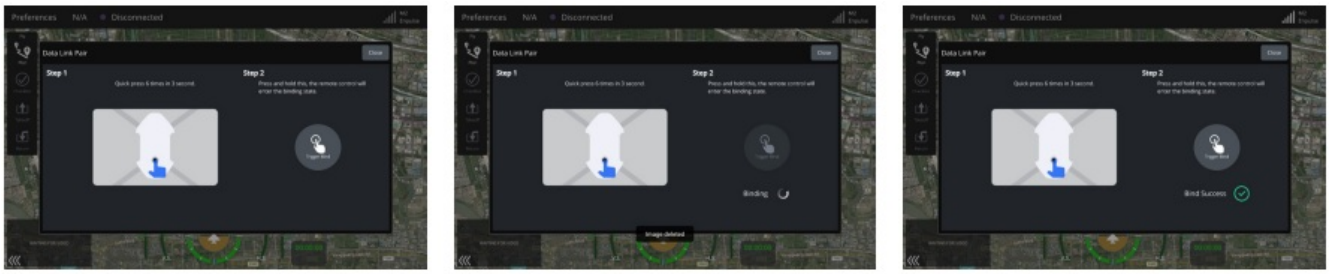


1. ETH 1
2. Antenna hole
3. UART 2
4. Fan
5. Binding hole
6. UART 1
7. ETH 0

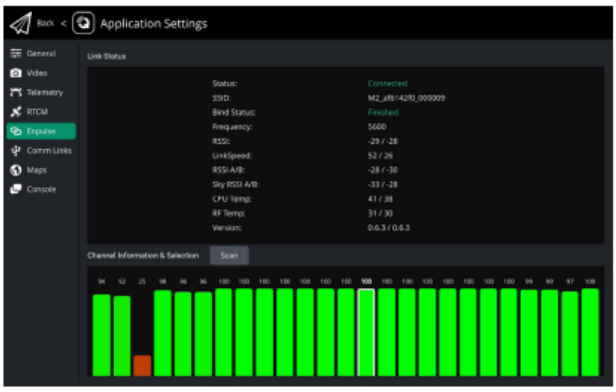
Linking

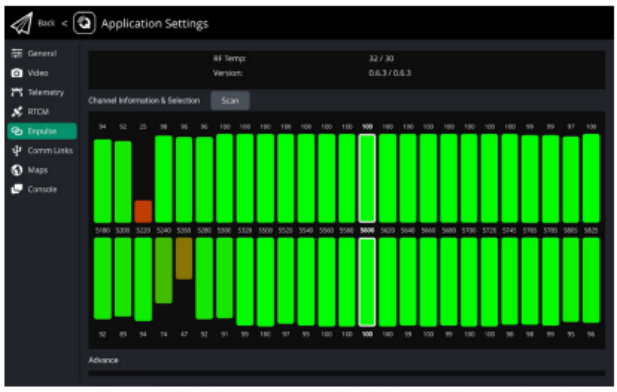
We take the Enpulse M2 Air unit mounted on the drone, and the Ground unit mounted on the remote controller as an example to introduce the binding.

1. Power on the aircraft and remote controller.
2. Align the slender screwdriver head (or other slender object) with the trigger port for Enpulse M2 binding, press and hold for 2 seconds, the indicator light will flash quickly, the Enpulse M2 is ready to be connected.
3. Enter the remote controller main interface, as shown in the figure below, Click “ENPULSE M2” in the upper right corner to enter the binding interface.
   Press and hold “Bind” to bind.



4. When connection is completed, The controller will receive data from Aircraft. Bind Status will show as “Bind Success” .
5. Once the binding is complete, we can check for more detailed connection information in the “Enpulse Settings”, as well as scan and select signals of different frequencies.





Appendix

Specifications

Enpulse M2

- **Operating Frequency**
  - 5180–5240 MHz, 5745–5825 MHz
- **Transmitter Power**
  - 5.18–5.24 GHz: 16.52 dBm
  - 5.8 GHz: 19.75 dBm
- **Max Transmission Distance**
  - (Unobstructed, free of interference): 10 km
- **Max Bandwidth**
  - 20 MHz, max 100 Mbps
- **Power**
  - 12 V DC, 1 A
- **Weight**
  - Approx. 75 g
- **Dimensions**
  - 81.45 × 49.35 × 23.50 mm
- **Operating Temperature**
  - -20°C to 50°C (-4°F to 122°F)

FCC Statement

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

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 Radiation Exposure Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .This equipment should be installed and operated with minimum distance 20cm between the radiator& your body.

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 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.

FAQs

Q: What is the maximum transmission distance of the Enpulse M2?
A: The maximum transmission distance is 10km when unobstructed and free of interference.

Q: What power supply does the Enpulse M2 require?

A: The Enpulse M2 requires a power input of 12Vdc, 1A.

Documents / Resources

	NURLMCH ENPULSE M2 Wireless Communication Module [pdf] User Manual 2BOAG-ENPULSE-M2, 2BOAGENPULSEM2, ENPULSE M2 Wireless Communication Module, ENPULSE M2, Wireless Communication Module, Communication Module, Module

References

- User Manual

NURLMCH

2BOAG-ENPULSE-M2, 2BOAGENPULSEM2, Communication module, ENPULSE M2, ENPULSE M2 Wireless Communication Module, Module, NURLMCH, Wireless Communication Module

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