

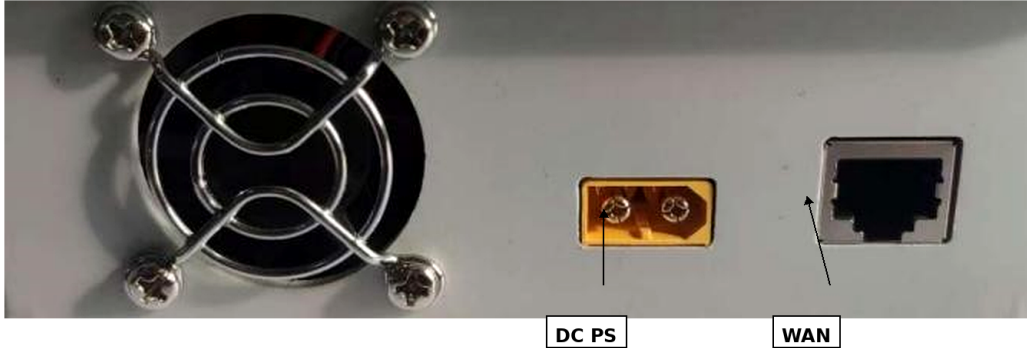
LST-RP Repeater User Manual

Version: V2.0

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1. Port Overview



DC PS: Power input port (DC10V-35V)

WAN: Ethernet cable port (RJ45)

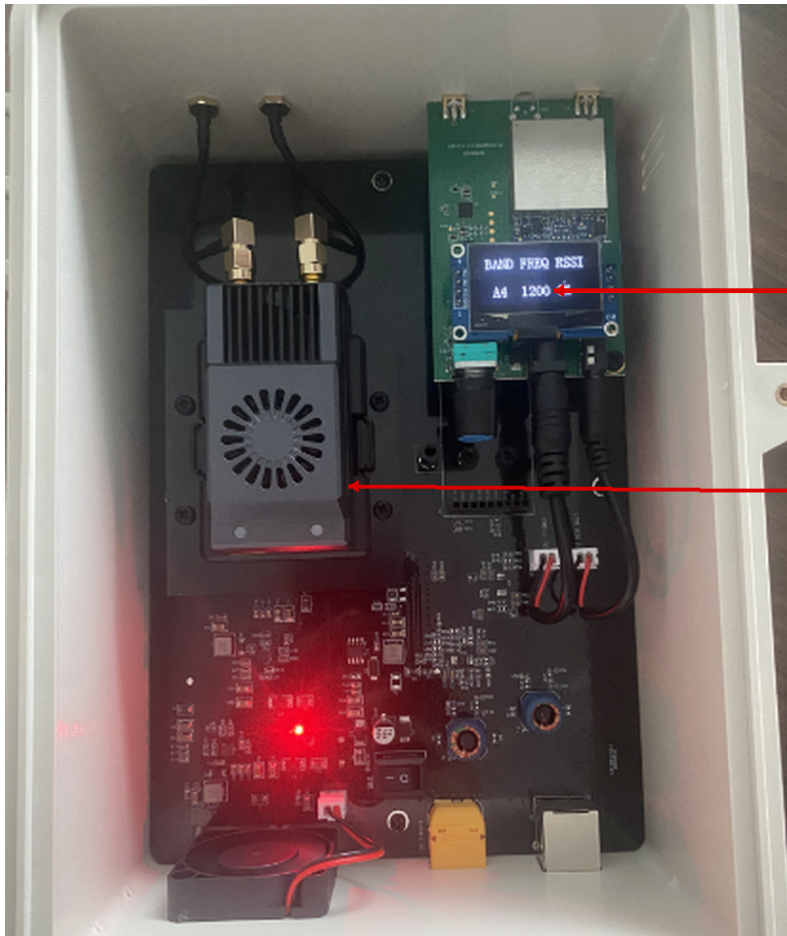
RX-A: Receiver A port (SMA-F)

RX-B: Receiver B port (SMA-F)

TX-A: Transmitter A port (SMA-F)

TX-B: Transmitter B port (SMA-F)





Receiver Module

RF Module

1	DC5V/2A
2	NC
3	GND
4	6.5M
5	6.0M
6	VIDEO
7	NC
8	NC
9	NC

Receiver Module Pin Definition

1	NC
2	NC
3	DC8V/2A
4	GND
5	SP

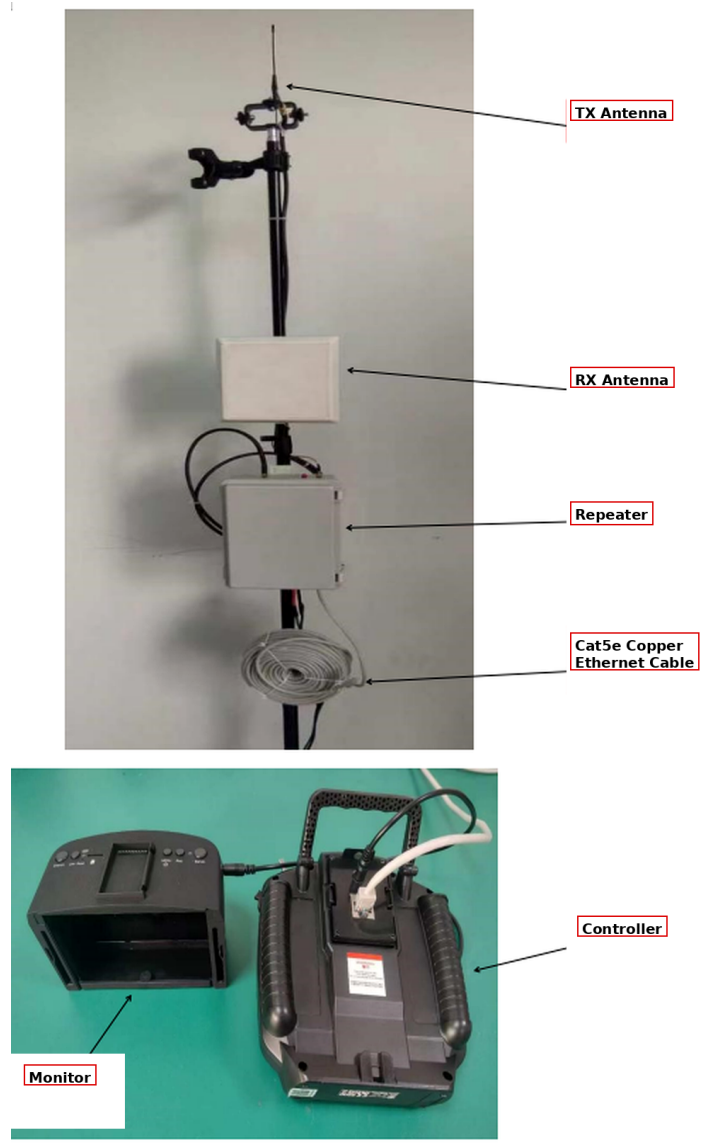
RF Module Pin Definition

2. System Architecture

The flight-control relay system consists of the repeater main unit, RF module, receiver module, power supply, RF-module directional transmit antenna and receiver directional antenna, Cat5e Ethernet cable, video cable, monitor,

and flight controller system. Connect the TX port to the directional transmit antenna, and connect the RX-A and RX-B ports to the directional receive antennas, as shown below.

Note: The receiver module must use our company's product; the RF module brand can be selected by the customer.



During installation, pay attention to the distance between the receiving and transmitting antennas. In all cases, the vertical distance between the transmit antenna and receive antenna must be greater than 60cm to prevent system interference.

3. Technical Specifications

Product Model	LST-RP-V2.0
Supply Voltage	DC10V-35V
Power Connector	XT60
RF Port	SMA-F
Remote-Control RF Module	Customer-selected
Video Receiver	Customer-selected
Ethernet Cable	Recommended: pure copper Cat5e Ethernet cable
Transmission Distance	<300m
Video Cable	3.5mm 4-pole AUX cable
Operating Temperature	-20°C to +70°C
Weight	0.6kg
Dimensions	240mm x 170mm x 110mm