ALink3 User manual



Product appearance:





Electrical characteristic

- 1. Input voltage: 12-27V
- 2. Input current: 1.5A

Supported LiDAR models

AU10 AA450

radar-mounted

Install the LiDAR to the adapter and connect the 15pin connector of the adapter to ALink3

Module configuration

- 1. Configure the PC to the 192.168.254.X network segment.
- 2. Log in to the WIFI module through the wired network port. IP address: 192.168.254.254, account admin, password admin. (Or log in to the WiFi module through the wireless network port, connect the module WiFi and log in to the website http://vonets.cfg)
- 3. Change the module working mode to routing mode:

Operative Status	Operating Mode
Operating Mode >>	Device Mode
WAN Settings	Router v
LAN Settings	- Adaptor
WiFi Settings	Modem
Firewall	Internet
Forwarding Rule	
Specific Functions	Interface Mode
Timing Eurotions	Default WAN/LAN port define.

4. The WAN port Settings are as follows:

•			(Operating Mode:Router	立文 Logou
Operative Status	Basic Settings	DDNS		
Operating Mode	WAN Connection Type			
	Connection Type	WIFI 🗸		
WAN Settings >>>	Remote Management	O Disable Enable		
LAN Settings	WiFi Mode			
	SSID			
WiFi Settings	MAC Address	-		
	Connection Status	Disconnected		
Firewall	Scan Hotspots	Scan Hotspots		
	IP settings	DHCP (Auto config) V		
Forwarding Rule	DHCP Mode			
	Hostname	VONETS.COM		
Specific Functions				
Timing Functions	Modify the parameters, restart	the device to take effect.		
			Apply	Cancel
System Settings				

When the modification is complete, click the Confirm button.

5. The LAN port Settings are as follows:

Change the IP address to 192.168.0.1, start IP address to 192.168.0.2, and end IP address to 192.168.0.49 (The final interpretation belongs to the specific project).

•		(((●●))) Operating Mode:Router 中文 Logou
Operative Status	Basic Settings	DHCP Client MAC Binding IP Ethernet Port
Operating Mode	LAN Setup	
	IP Address	192.168.0.1
WAN Settings	Subnet Mask	255.255.255.0
LAN Settings 🚿	MAC Address	00:17:13:37:02:DA
WiFi Settings	DHCP Server	
	DHCP Server	Enable V
Firewall	Start IP Address	192.168.0.2
	End IP Address	192.168.0.49
Forwarding Rule	Subnet Mask	255.255.255.0
Specific Functions	Default Gateway	192.168.0.1
	Primary DNS Server	
Timing Functions	Secondary DNS Server	
System Settings		Apply Cancel

6. WIFI Settings are as follows:

Set the WIFI name ALink-xxx and fixed Channel 13 according to the project requirements.

Operative Status	Basic Settings	WiFi Security WiFi Client WiFi Hotspots
Operating Mode	2.4G Wireless Network	
	WiFi Hardware Module	Enable Disable
WAN Settings	General Hotspot SSID	ALink-005 Hidden Disable Hotspot
LAN Cattings		00:17:13:37:02:D8
LAN Setungs	Network Mode	11B/G/N ✓
WiFi Settings	Select channel range	1~14 ~
	Channel	2472MHz (Channel 13) 🗸 🗆 Auto select the best channel
Firewall	WiFi Tx Power	O Normal Power(14.5dBm) Enhanced Power(16dBm)
Forwarding Rule	Modify the parameters, restart	the device to take effect.
pecific Functions		Apply Cancel
peeme runeuona		
iming Functions		
System Settings		

ONETS'			(()) •	()) Operating Mode:Router	中文 🦳
perative Status	Basic Settings	WiFi Security	WiFi Client	WiFi Hotspots	
perating Mode	WiFi Security				
VAN Settings	Repeater SSID	ALink-005 ~			
WiFi Settings 🚿				Apply	Cancel
LAN Settings	Modify the parameters,resta	rt the device to take effec	t.		
Firewall					
prwarding Rule					
ecific Functions					
iming Functions					
/stem Settings					
Wizard					

The safe mode is disabled. (No connection password required) :

7. Configure serial port forwarding

Specific Features -> Serial Port (UART) -> Data Forwarding Services & Serial Port Settings (COM1).

Operative Status	Network&Security AC	management Serial port(UART)			
Operating Mode	Data forwarding service				
	Data forwarding type	Instant forwarding V (UART <=> UDP/TCP)			
WAN Settings		TCP-Server V			
LAN Settings	Client connection timeout	5 Sec(0~300, '0' never timeout)			
	Serial Port Settings (COM1)	Serial Port Settings (COM1)			
WiFi Settings	Baud	115200 🗸			
	Data bits	8 ~			
Firewall	Stop bits				
Forwarding Pula	Parity	None V			
	Flow control	None v			
Specific Functions \gg	Rx Mode	Packet Mode ▼ Minimum interval between receiving packets 60 ms (60~250)			
Timing Functions	Local Forward Port	8984			

Configure according to the parameters in the figure (0&5&120 can be modified if the client connection times out), and click OK when the configuration is complete.

8. Save the parameters and restart the WIFI module for the parameters to take effect.

ALink3 Connection definition

ALINK (J30JZ-15)				
Serial number	Definition	Instructions		
9	ETH_TX+	100 Mbit potwork ports are twisted		
10	ETH_TX-	100 Mbit network ports are twisted		
11	ETH_RX+	100 Mbit potwork ports are twisted		
12	ETH_RX-	100 Mbit hetwork ports are twisted		
3	TTL_TX_OUT	433 TX		
4	TTL_RX_IN	433 RX		
1	DC24V			
2	GND			
ALINK (J30JZ-15)				
Serial number	Definition	Instructions		
6	LAN_TX+	100 Mbit potwork ports are twisted		
7	LAN_TX-	100 Mbit hetwork ports are twisted		
14	LAN_RX+	100 Mbit potwork ports are twisted		
15	LAN_RX-	100 MBR HELWORK POILS are twisted		
ALINK (J30JZ-15)				
Serial number	Definition	Instructions		
3	TTL_TX_OUT	ALINK TX		
4	TTL_RX_IN	ALNK RX		
5	GND			



FCC Caution

§ 15.19 Labeling requirements.

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.

§ 15.21 Information to user.

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

§ 15.105 Information to the user.

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.

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