

Wi-Fi Controller Network Connection Guide

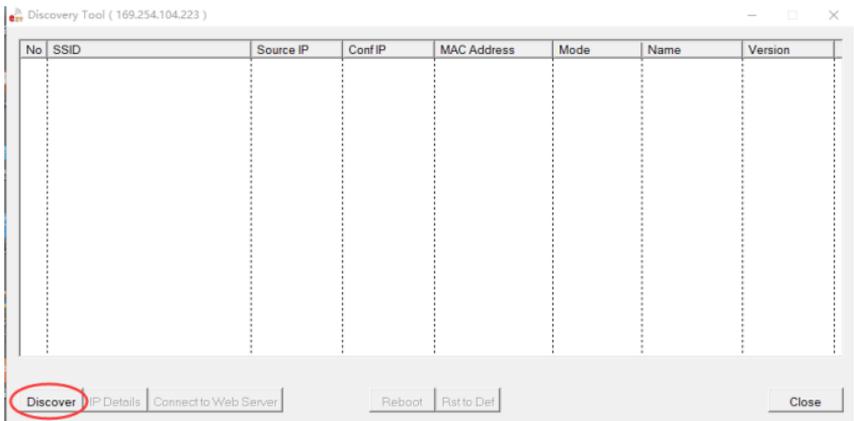
To connect a Wi-Fi controller to the network successfully, follow the below steps:

- 1) Set Wi-Fi Module parameters via "DiscoveryTool.exe".
- 2) Add the device to the ZKBioSecurity.

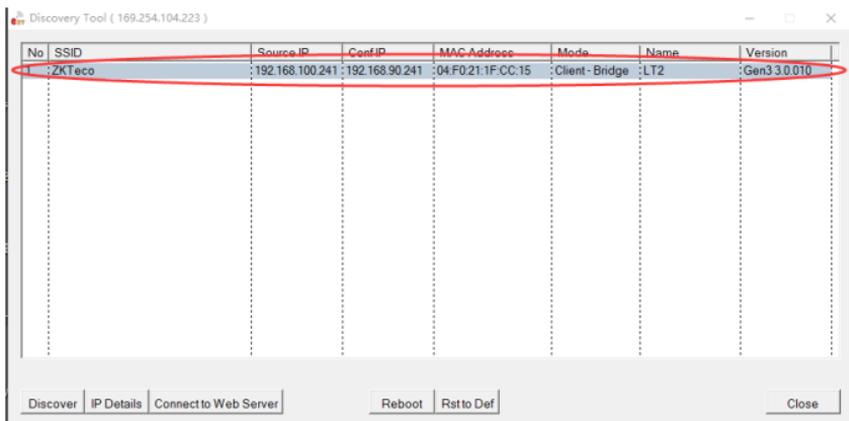
Chapter 1 Setting the Wi-Fi Module

The "DiscoveryTool.exe" is for device searching and parameter-setting on the PC

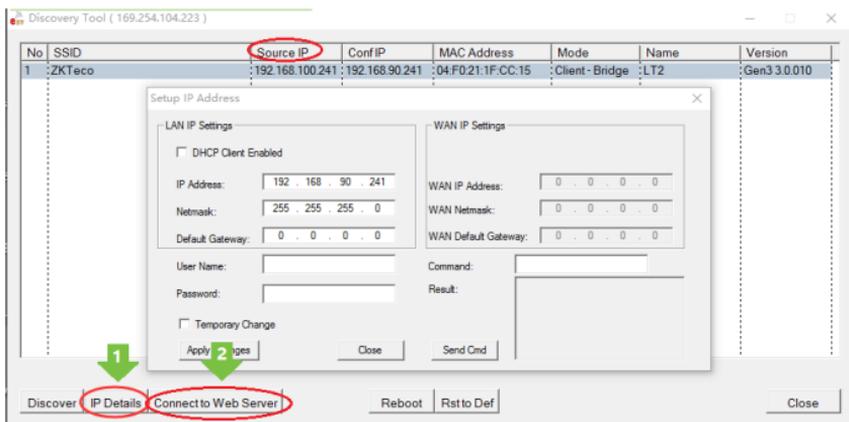
1. Connect the Wi-Fi module to PC via a Ethernet cable, and power on. Then start the [Discovery Tool], click [Discover]. Wait for 30 sec.



2. The search result is shown below. Click once to select



3. Click **IP Details** to view and modify the IP address.



Note: Make sure that the Wi-Fi module and the PC on the same network segment.

4. Click **Connect to Web Server** or double-click the searched results to access the Web screen.

The screenshot shows the ZKT ECO Status page. On the left is a navigation menu with 'Wireless' selected. The main content area is titled 'Status' and includes sections for System, Memory, Wireless, and Network. The System section shows Host Name (LT2), Model (LT2-003), Firmware Version (1.23-18.010), Kernel Version (3.3.8), and Local Time (Thu May 19 12:17:22 2016). The Memory section shows Total Available (100% at 6196 of 8720) and Free (100% at 6196 of 8720). The Wireless section shows QCA9818 802.11bgn Radio with SSID (ZKTeco), Mode (Client), Channel (1 (2.427 GHz)), Bitrate (72.2Mbps), MAC Address (D4:F9:21:3F:CC:15), and BSSID (74:D9:2B:D3:A3:98). Encryption is WPA2 PSK (AUTO) with ACK Timeout (2'), RX Rate (46.4Mbps), TX Rate (48.4Mbps), and TX Rate (63.4Mbps). The Network section shows Update (2h 58m 30s), MAC Address (D4:F9:21:3F:CC:15), Protocol (none), RX (939.71 KB (12463 Pkts)), TX (1.61 MB (6234 Pkts)), IP (4: 192.168.90.241/24), eth0 up, and eth1 up.

Note: If fail to access the Web interface, please check the module's IP (or modify as step 3 again).

5. Go to **Wireless > Site Survey** on the left..

The screenshot shows the ZKT ECO Join Network: Wireless Scan page. The left navigation menu has 'Wireless' selected. The main content area displays a list of detected networks with columns for signal strength, name, channel, mode, master, BSSID, SSID, and encryption. A red box highlights the 'ZKTeco' entry, which has a signal strength of 100%, channel 9, mode Master, BSSID 74:D9:2B:D3:A3:98, SSID ZKTeco, and encryption WPA2 - PSK. A red arrow points to the 'Join Network' button for this entry. Another red arrow points to the 'Join Network' button for the 'ChinaNet-0010' entry. The 'Wireless' menu item is circled in red, and a red arrow points to it. The 'Site Survey' menu item is also circled in red, and a red arrow points to it.

6. Click [Join Network], type the correct password, then click [Submit] to connect the module to the router.

The screenshot shows the ZKTeco web interface for 'Join Network: Settings'. On the left is a green sidebar with the ZKTeco logo and navigation menu. The main content area is titled 'Join Network: Settings' and contains the following fields:

- ESSID: ZKTeco
- BSSID: 74:D0:2B:D3:A3:98
- WPA passphrase: [Redacted]

Below the WPA passphrase field is a blue link: 'Specify the secret encryption key here.' At the bottom of the settings area are two buttons: 'Submit' (circled in red) and 'Back to scan results'.

7. Set router parameters.

The screenshot shows the ZKTeco web interface for 'Wireless Network: Client "ZKTeco" (ath0)'. The left sidebar is the same as in the previous screenshot. The main content area is titled 'Wireless Network: Client "ZKTeco" (ath0)' and contains the following fields under 'Basic Settings':

- Channel: 3 (2.422 GHz) [Redacted]
- Mode: Client [Redacted]
- ESSID: ZKTeco
- BSSID: 74:D0:2B:D3:A3:98
- Guard Interval: Short
- Data Rate (Mbps): Auto
- Repeater Enable:

At the bottom of the settings area are three buttons: 'Save & Apply' (circled in red), 'Save', and 'Reset'.

Note:

- (1) Ensure that **Channel** and the router are in the same band, set **Mode** to **Client**, and click **Save & Apply** (Normally, no modification is required). Then, the Wi-Fi module restarts. It beeps during restart with the yellow and red indicators as off. The Wi-Fi module beeps again after successfully restart, and the yellow and red indicators are on. **The restart takes about 1 min.**

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- (2) Remove the network cable between the Wi-Fi module and the PC and connect the PC to the wireless router.

Chapter 2 Adding the Device to the ZKBioSecurity

Log in to the ZKBioSecurity:

Method 1: Login through the LAN (Local Area Network).

Method 2: Login on the PC that installed the ZKBioSecurity.

Go to **Device > Add Device**, search for the device, locate the controller IP address that has been set, and then add the device.

Note: If the software successfully search the device and the device is added successfully, the communication is normal.

For details about other operations, see the ***ZKBioSecurity Software Description*** and ***Controller User Manual***.