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Overview
The AWK-1131A industrial wireless access point meets the growing need for faster data transmission speeds by supporting IEEE 802.11n technology with a net data rate of up to 300 Mbps. The AWK-1131A is compliant with the industrial standards and approvals, covering operating temperature, power input voltage, surge, ESD and vibration. The two redundant DC power inputs increase the reliability of the power supply. The AWK-1131A can operate on either the 2.4 or 5 GHz bands and is backwards-compatible with existing 802.11a/b/g deployments to future-proof your wireless investments.

Hardware Setup
This section covers the hardware setup for the AWK-1131A.

Package Checklist
Moxa’s AWK-1131A is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance.

- 1 AWK-1131A
- 2 dual-band omni-directional antennas, 2 dBi, RP-SMA (male)
- 1 quick installation guide (printed)
- 1 warranty card
- 1 plastic RJ45 protective cap for console port
Panel Layout of the AWK-1131A

Top Panel View
1. Grounding screw (M5)
2. Terminal block for PWR1 and PWR2
3. RS-232 console port
4. Antenna B port
5. System LEDs: PWR, FAULT, and STATE LEDs
6. LEDs for signal strength
7. WLAN LEDs
8. 10/100/1000BaseT(X) RJ45 Port
9. Antenna A port
10. Screw hole for wall-mounting kit
11. DIN-rail mounting kit
12. Reset button
13. 10/100M LED
14. 1000M LED

Front Panel View

Rear Panel View
Mounting Dimensions

DIN-Rail Mounting

The aluminum DIN-rail attachment plate should be fixed to the back panel of the AWK-1131A when you take it out of the box. If you need to reattach the DIN-rail attachment plate to the AWK-1131A, make sure the stiff metal spring is situated towards the top, as shown in the figures below.

**STEP 1:**
Insert the top of the DIN rail into the slot just below the stiff metal spring.

**STEP 2:**
The DIN-rail attachment unit will snap into place as shown below.

To remove the AWK-1131A from the DIN rail, simply reverse Steps 1 and 2.
Wall Mounting (optional)

For some applications, it may be more convenient to mount the AWK-1131A to a wall, as illustrated below.

**STEP 1:**
Remove the aluminum DIN-rail attachment plate from the AWK-1131A, and then attach the wall mount plates with M3 screws, as shown in the adjacent diagrams.

**STEP 2:**
Mounting the AWK-1131A to a wall requires 4 screws. Use the AWK-1131A device, with wall mount plates attached, as a guide to mark the correct locations of the 4 screws. The heads of the screws should be less than 6.0 mm in diameter, and the shafts should be less than 3.5 mm in diameter, as shown in the figure at the right.

Do not drive the screws in all the way—leave a space of about 2 mm to allow room for sliding the wall mount panel between the wall and the screws.

**NOTE** Test the screw head and shank size by inserting the screws into one of the keyhole shaped apertures of the wall-mounting plates before attaching the plate to the wall.

**STEP 3:**
Once the screws are fixed into the wall, insert the four screw heads through the large opening of the keyhole-shaped apertures, and then slide the AWK-1131A downwards, as indicated to the right. Tighten the four screws for added stability.
Wiring Requirements

**WARNING**

Safety First!

Be sure to disconnect the power cord before installing and/or wiring your Moxa AWK-1131A. Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes dictating the maximum current allowed for each wire size. If the current goes above the maximum ratings, the wiring could overheat, causing serious damage to your equipment.

You should also pay attention to the following items:

- Use separate paths to route wiring for power and devices. If power wiring and device wiring paths must cross, make sure the wires are perpendicular at the intersection point.

**NOTE**

Do not run signal or communications wiring and power wiring in the same wire conduit. To avoid interference, wires with different signal characteristics should be routed separately.

- You can use the type of signal transmitted through a wire to determine which wires should be kept separate. The rule of thumb is that wiring with similar electrical characteristics can be bundled together.
- Keep input wiring and output wiring separate.
- It is strongly advised that you label wiring to all devices in the system when necessary.

**ATTENTION**

This product is intended to be supplied by a Listed Power Unit marked “Class 2” or “LPS” and rated O/P: 6.96 W.

**ATTENTION**

Make sure the external power adaptor (includes power cords and plug assemblies) provided with the unit is certified and suitable for use in your country.

Grounding the Moxa AWK-1131A

Grounding and wire routing help limit the effects of noise due to electromagnetic interference (EMI). Run the ground connection from the ground screw to the grounding surface prior to connecting devices.

**ATTENTION**

This product is intended to be mounted to a well-grounded mounting surface, such as a metal panel.
Installations with Cable Extended Antennas for Outdoor Applications

If the antenna or the AWK device is installed outdoors or in an open-air setting, proper lightning protection is required to prevent direct lightning strikes on the AWK device. In order to prevent coupling currents from nearby lightning strikes, a lightning arrester should be installed as part of your antenna system. Ground the device, antenna, as well as the arrester properly to provide maximum outdoor protection for the device.

Arrester Accessories

- **SA-NMNF-01**: Surge arrester, N-type (male) to N-type (female)
- **SA-NFNF-01**: Surge arrester, N-type (female) to N-type (female)

Wiring the Redundant Power Inputs

The 4-contact terminal block connector on the AWK-1131A’s top panel is used for the AWK-1131A’s two DC inputs. The top and front views of the terminal block connector are shown here.

**STEP 1:** Insert the negative/positive DC wires into the V-/V+ terminals.

**STEP 2:** To keep the DC wires from pulling loose, use a small flat-blade screwdriver to tighten the wire-clamp screws on the front of the terminal block connector.

**STEP 3:** Insert the plastic terminal block connector prongs into the terminal block receptor, which is located on the AWK-1131A’s top panel.
ATTENTION
Before connecting the AWK-1131A to the DC power inputs, make sure the DC power source voltage is stable.

Communication Connections

10/100BaseT(X) Ethernet Port Connection
The 10/100BaseT(X) ports located on the AWK-1131A’s front panel are used to connect to Ethernet-enabled devices. Below we show pinouts for both MDI (NIC-type) ports and MDI-X (HUB/Switch-type) ports.

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tx+</td>
</tr>
<tr>
<td>2</td>
<td>Tx-</td>
</tr>
<tr>
<td>3</td>
<td>Rx+</td>
</tr>
<tr>
<td>6</td>
<td>Rx-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rx+</td>
</tr>
<tr>
<td>2</td>
<td>Rx-</td>
</tr>
<tr>
<td>3</td>
<td>Tx+</td>
</tr>
<tr>
<td>6</td>
<td>Tx-</td>
</tr>
</tbody>
</table>

1000BaseT Ethernet Port Connection
1000BaseT data is transmitted on differential TRD+/- signal pairs over copper wires.

<table>
<thead>
<tr>
<th>Pin</th>
<th>Signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TRD(0)+</td>
</tr>
<tr>
<td>2</td>
<td>TRD(0)-</td>
</tr>
<tr>
<td>3</td>
<td>TRD(1)+</td>
</tr>
<tr>
<td>4</td>
<td>TRD(2)+</td>
</tr>
<tr>
<td>5</td>
<td>TRD(2)-</td>
</tr>
<tr>
<td>6</td>
<td>TRD(1)-</td>
</tr>
<tr>
<td>7</td>
<td>TRD(3)+</td>
</tr>
<tr>
<td>8</td>
<td>TRD(3)-</td>
</tr>
</tbody>
</table>

RS-232 Connection
The AWK-1131A has one RS-232 (8-pin RJ45) console port located on the top panel. Use either an RJ45-to-DB9 or RJ45-to-DB25 cable to connect the Moxa AWK-1131A’s console port to your PC’s COM port. You may then use a console terminal program to access the AWK-1131A for console configuration.

<table>
<thead>
<tr>
<th>10-Pin</th>
<th>Description</th>
<th>8-Pin</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>–</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>DSR</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>RTS</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>GND</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>TxD</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>RxD</td>
<td>6</td>
</tr>
<tr>
<td>7</td>
<td>DCD</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>CTS</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>DTR</td>
<td>–</td>
</tr>
<tr>
<td>10</td>
<td>–</td>
<td></td>
</tr>
</tbody>
</table>
NOTE  The pin numbers for both 8-pin and 10-pin RJ45 connectors (and ports) are typically not labeled on the connector (or port). Refer to the pinout diagram above for details.

LED Indicators

The front panel of the Moxa AWK-1131A contains several LED indicators. The function of each LED is described in the table below.

<table>
<thead>
<tr>
<th>LED</th>
<th>Color</th>
<th>State</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PWR1</strong></td>
<td>Green</td>
<td>On</td>
<td>Power is on (power input 1).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Off</td>
<td>Power is not being supplied.</td>
</tr>
<tr>
<td><strong>PWR2</strong></td>
<td>Green</td>
<td>On</td>
<td>Power is on (power input 2).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Off</td>
<td>Power is not being supplied.</td>
</tr>
<tr>
<td><strong>FAULT</strong></td>
<td>Red</td>
<td>Blink (fast at 0.5-second intervals)</td>
<td>Cannot get an IP address from the DHCP server.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blink (slow at 1-second intervals)</td>
<td>IP address conflict.</td>
</tr>
<tr>
<td><strong>STATE</strong></td>
<td>Green/Red</td>
<td>Blinking at 1-second intervals</td>
<td>The AWK has been located by the Wireless Search Utility.</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>Off</td>
<td>Error condition does not exist.</td>
</tr>
<tr>
<td><strong>SIGNAL</strong></td>
<td>Green</td>
<td>On</td>
<td>Signal level (for Client mode only)</td>
</tr>
<tr>
<td>(5 LEDs)</td>
<td></td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td><strong>WLAN</strong></td>
<td>Green</td>
<td>On</td>
<td>WLAN function is in client mode and AWK has established a link with an AP.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blinking</td>
<td>WLAN data communication is running in client mode.</td>
</tr>
<tr>
<td></td>
<td>Amber</td>
<td>Off</td>
<td>WLAN is not in client mode or AWK has not established a link with an AP.</td>
</tr>
<tr>
<td><strong>TP Port (RJ45) LED Indicators (Port Interface)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>1000M</strong></td>
<td>Green</td>
<td>On</td>
<td>TP port’s 1000 Mbps link is active.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blinking</td>
<td>Data is being transmitted at 1000 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Off</td>
<td>TP port’s 1000 Mbps link is inactive.</td>
</tr>
<tr>
<td><strong>10/100M</strong></td>
<td>Amber</td>
<td>On</td>
<td>TP port’s 10/100 Mbps link is active.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blink</td>
<td>Data is being transmitted at 10/100 Mbps</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Off</td>
<td>TP port’s 10/100 Mbps link is inactive.</td>
</tr>
</tbody>
</table>
## Specifications

### WLAN Interface

| Standards | IEEE 802.11a/b/g/n for Wireless LAN  
IEEE 802.11i for Wireless Security  
IEEE 802.3 for 10BaseT  
IEEE 802.3u for 100BaseT(X)  
IEEE 802.3ab for 1000BaseT |
| Spread Spectrum and Modulation (typical) | • DSSS with DBPSK, DQPSK, CCK  
• OFDM with BPSK, QPSK, 16QAM, 64QAM  
802.11b: CCK @ 11/5.5 Mbps, DQPSK @ 2 Mbps, DBPSK @ 1 Mbps  
802.11a/g: 64QAM @ 54/48 Mbps, 16QAM @ 36/24 Mbps, QPSK @ 18/12 Mbps, BPSK @ 9/6 Mbps  
802.11n: 64QAM @ 300 Mbps to BPSK @ 6.5 Mbps (multiple rates supported) |

### Operating Channels (central frequency)

| US: | 2.412 to 2.462 GHz (11 channels)  
5.180 to 5.240 GHz (4 channels)  
5.260 to 5.320 GHz (4 channels)*  
5.500 to 5.700 GHz (8 channels, excluding 6.060 to 5.640 GHz)*  
5.745 to 5.825 GHz (5 channels) |
| EU: | 2.412 to 2.472 GHz (13 channels)  
5.180 to 5.240 GHz (4 channels)  
5.260 to 5.320 GHz (4 channels)*  
5.500 to 5.700 GHz (11 channels)* |
| JP: | 2.412 to 2.484 GHz (14 channels, DSSS)  
5.180 to 5.240 GHz (4 channels)  
5.260 to 5.320 GHz (4 channels)*  
5.500 to 5.700 GHz (11 channels)* |

*DFS (Dynamic Frequency Selection) channel support: In AP mode, when a radar signal is detected, the device will automatically switch to another channel. However according to regulations, after switching channels, a 60-second availability check period is required before starting the service.

### Security

| SSID broadcast enable/disable  
Firewall for MAC/IP/Protocol/Port-based filtering  
64-bit and 128-bit WEP encryption  
WPA/WPA2-Personal and Enterprise (IEEE 802.1X/RADIUS, TKIP and AES) |

### Transmission Rates

| 802.11b: 1, 2, 5.5, 11 Mbps  
802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps  
802.11n: 6.5 to 300 Mbps (multiple rates supported) |

### Transmitter Power

| 802.11b:  
Typ. 26±1.5 dBm @ 1 Mbps  
Typ. 26±1.5 dBm @ 2 Mbps  
Typ. 26±1.5 dBm @ 5.5 Mbps  
Typ. 25±1.5 dBm @ 11 Mbps |
802.11g:
- Typ. 23±1.5 dBm @ 6 to 24 Mbps
- Typ. 22±1.5 dBm @ 36 Mbps
- Typ. 20±1.5 dBm @ 48 Mbps
- Typ. 19±1.5 dBm @ 54 Mbps

802.11n (2.4 GHz):
- Typ. 23±1.5 dBm @ MCS0/8 20 MHz,
- Typ. 18±1.5 dBm @ MCS7/15 20 MHz
- Typ. 23±1.5 dBm @ MCS0/8 40 MHz,
- Typ. 17±1.5 dBm @ MCS7/15 40 MHz

802.11a:
- Typ. 23±1.5 dBm @ 6 to 24 Mbps
- Typ. 21±1.5 dBm @ 36 Mbps
- Typ. 20±1.5 dBm @ 48 Mbps
- Typ. 18±1.5 dBm @ 54 Mbps

802.11n (5 GHz):
- Typ. 23±1.5 dBm @ MCS0/8 20 MHz,
- Typ. 18±1.5 dBm @ MCS7/15 20 MHz
- Typ. 23±1.5 dBm @ MCS0/8 40 MHz,
- Typ. 18±1.5 dBm @ MCS7/15 40 MHz

Note: Based on regional regulations, the maximum transmission power allowed on the UNII bands is restricted in the firmware, as indicated below:

<table>
<thead>
<tr>
<th>US</th>
<th>EU</th>
<th>JP</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.4 GHz</td>
<td>20 dBm</td>
<td>20 dBm</td>
</tr>
<tr>
<td>5 GHz (UNII-1)</td>
<td>17 dBm</td>
<td>20 dBm</td>
</tr>
<tr>
<td>5 GHz (UNII-2)</td>
<td>20 dBm</td>
<td>20 dBm</td>
</tr>
<tr>
<td>5 GHz (UNII-2e)</td>
<td>20 dBm</td>
<td>20 dBm</td>
</tr>
<tr>
<td>5 GHz (UNII-3)</td>
<td>20 dBm</td>
<td>20 dBm</td>
</tr>
</tbody>
</table>

Receiver Sensitivity
- 802.11b:
  -93 dBm @ 1 Mbps, -93 dBm @ 2 Mbps
  -93 dBm @ 5.5 Mbps, -88 dBm @ 11 Mbps
- 802.11g:
  -88 dBm @ 6 Mbps, -86 dBm @ 9 Mbps
  -85 dBm @ 12 Mbps, -85 dBm @ 18 Mbps
  -85 dBm @ 24 Mbps, -82 dBm @ 36 Mbps
  -78 dBm @ 48 Mbps, -74 dBm @ 54 Mbps
- 802.11n (2.4 GHz):
  -70 dBm @ MCS7 20 MHz,
  -69 dBm @ MCS15 20 MHz,
  -67 dBm @ MCS7 40 MHz,
  -67 dBm @ MCS15 40 MHz
- 802.11a:
  -90 dBm @ 6 Mbps, -88 dBm @ 9 Mbps
  -88 dBm @ 12 Mbps, -85 dBm @ 18 Mbps
  -81 dBm @ 24 Mbps, -78 dBm @ 36 Mbps
  -74 dBm @ 48 Mbps, -72 dBm @ 54 Mbps
- 802.11n (5 GHz):
  -69 dBm @ MCS7 20 MHz,
  -71 dBm @ MCS15 20 MHz,
  -63 dBm @ MCS7 40 MHz,
  -68 dBm @ MCS15 40 MHz
**Protocol Support**

**General Protocols**
Proxy ARP, DNS, HTTP, HTTPS, IP, ICMP, SNTP, TCP, UDP, RADIUS, SNMP, PPPoE, DHCP, LLDP

**Interface**

**Default Antennas**
2 dual-band omni-directional antennas, 2 dBi, RP-SMA (male)

**Connector for External Antennas**
RP-SMA (female)

**LAN Ports**
1, RJ 45, 10/100/1000BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection

**Console Port**
RS-232 (RJ45-type)

**Reset**
Present

**LED Indicators**
PWR, FAULT, STATE, SIGNAL*, WLAN, 10/100/1000 (RJ45 port)
*signal strength indicator

**Physical Characteristics**

**Housing**
Metal, providing IP30 protection

**Weight**
307 g (0.68 lb)

**Dimensions**
58 x 115 x 70 mm (2.29 x 4.53 x 2.76 in)

**Installation**
DIN-rail mounting, wall mounting (with optional kit)

**Environmental Limits**

**Operating Temperature**
Standard Models: 0 to 60°C (32 to 140°F)  
Wide Temp. Models: -40 to 75°C (-40 to 167°F)

**Storage Temperature**
-40 to 85°C (-40 to 185°F)

**Ambient Relative Humidity**
5% to 95% (non-condensing)

**Power Requirements**

**Input Voltage**
12 to 48 VDC, redundant dual DC power inputs

**Input Current**
0.56 A @ 12 VDC; 0.14 A @ 48 VDC

**Connector**
4-pin removable terminal block, 500 B insulation

**Power Consumption**
6.96 W

**Reverse Polarity Protection**
Present

**Standards and Certifications**

**Safety**
UL 60950-1, EN 60950-1

**EMC**
EN 55032/55024

**EMI**
CISPR 32, FCC Part 15B Class B

**EMS**
IEC 61000-4-2 ESD: Contact 4 kV; Air 8 kV  
IEC 61000-4-3 RS: 80 MHz to 1 GHz; 10 V/m  
IEC 61000-4-4 EFT: Power 2 kV; Signal 1 kV  
IEC 61000-4-5 Surge: Power 2 kV; Signal 1 kV  
IEC 61000-4-6 CS: 3 V  
IEC 61000-4-8

**Radio**
EN 301 489-1/17, EN 300 328, EN 301 893, TELEC, FCC ID SLE-WAPN008

Please check Moxa’s website for the most up-to-date certification status.

**Reliability**

**MTBF**
749,476 hrs.

**Standard**
Telcordia SR332

**Warranty**

**Warranty Period**
5 years

**Details**
See www.moxa.com/support/warranty.aspx
ATTENTION
The AWK-1131A is NOT a portable mobile device and should be located at least 20 cm away from the human body. The AWK-1131A is NOT designed for the general public. A well-trained technician is required to deploy the AWK-1131A units and safely establish a wireless network.

ATTENTION
This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

ATTENTION
Do not locate the antenna near overhead power lines or other electric light or power circuits, or where it can come into contact with such circuits. When installing the antenna, take extreme care not to come into contact with such circuits, because they may cause serious injury or death. For proper installation and grounding of the antenna, refer to national and local codes (for example, U.S.: NFPA 70; National Electrical Code, Article 810; Canada: Canadian Electrical Code, Section 54).

NOTE
For installation flexibility, either the A antenna (on the front panel) or the B antenna (on the top panel) may be selected for using. Make sure the antenna connection matches the antenna configured in the AWK-1131A web interface.

To protect the connectors and RF module, all radio ports should be terminated by either an antenna or a terminator. We strongly recommend using resistive terminators for terminating the unused antenna ports.

ATTENTION
"Publication Number: 443999 Rule Parts: 15E". FCC. October 5, 2009. "Devices must be professionally installed when operating in the 5470–5725 MHz band".
Software Setup
This section covers the software setup for the AWK-1131A.

How to Access the AWK

Before installing the AWK device (AWK), make sure that all items in the package checklist are provided in the product box. You will also need access to a notebook computer or PC equipped with an Ethernet port.

- **Step 1: Select a suitable power source and plug in the AWK.**
  The AWK can be powered by DC power ranging from **12 VDC to 48 VDC** or by a PoE PSE via an Ethernet connection.

- **Step 2: Connect the AWK to the notebook or PC via the AWK’s LAN port.**
  The LED indicator on the AWK’s LAN port will light up when a connection is established.

  ![AWK and notebook](image)

  **NOTE** If you are using an Ethernet-to-USB adapter, follow the instructions in the user’s manual provided with the adapter.

- **Step 3: Set up the computer’s IP address**
  Choose an IP address for the computer that is on the same subnet as the AWK. Since the AWK’s default IP address is **192.168.127.253**, and the subnet mask is **255.255.255.0**, set the IP address to **192.168.127.xxx**, where xxx is a value between 1 and 252.

- **Step 4: Access the homepage of the AWK.**
  Open your computer’s web browser and type **http://192.168.127.253** in the address field to access the AWK’s homepage. Log in using the following default username and password:
  
  - Default Username: **admin**
  - Default Password: **moxa**

  Click the **Login** button to access the homepage of the AWK device.

First-Time Quick Configuration

After successfully accessing the AWK, refer to the appropriate subsection below to quickly set up a wireless network.

**NOTE** Ensure that there are no IP address conflicts when you configure more than one AWK on the same subnet.
Configuring the AWK as an AP

- **Step 1:** Set the operation mode of the AWK to AP mode.
  Go to **Wireless LAN Setup** → **Operation Mode** and select AP.

  ![Wireless LAN Setup](image)

  **NOTE** The default operation mode for the AWK is AP.

- **Step 2:** Set up your own SSID.
  Go to **Wireless LAN Setup** → **WLAN** → **Basic WLAN Setup** and click **Edit** to set the SSID.

  ![Basic WLAN Setup](image)

  **NOTE** The default SSID is MOXA.
• **Step 3: Set the RF type and Channel for the AWK.**

Go to **Wireless LAN Setup → WLAN → Basic WLAN Setup**. We recommend that you choose the RF type 5 GHz for a relative clean medium with minimum interference.

For the **Channel** setting, we recommend that you choose a channel other than the default channel to avoid interference.

Click **Submit** to apply the changes, and restart the AWK in AP mode to complete the configuration process.

**Configuring the AWK as a Client**

• **Step 1: Set the operation mode of the AWK to Client mode.**

Go to **Wireless LAN Setup → Operation Mode**, set the operation mode to Client, and then click **Submit** to apply the change.

• **Step 2: Link to an existing SSID.**

Go to **Wireless LAN Setup → WLAN → Basic WLAN Setup** and click **Site Survey** to select an existing SSID, or directly enter an existing SSID in the text field.
Step 3: Set the RF type and Channel settings for the AWK.

On the Wireless LAN Setup → WLAN → Basic WLAN Setup page, edit the RF type and Channel settings. Click Submit to apply the changes, and restart the AWK in client mode to complete the configuration process.

Point-to-Point Scenario (Master/slave mode)

Configuring the AWK as a Master

Step 1: Set the operation mode of the AWK to Master mode.

Go to Wireless LAN Setup → Operation Mode, set the operation mode to Master, and then click Submit to apply the change.

Step 2: Set up your own SSID.

Go to Wireless LAN Setup → WLAN → Basic WLAN Setup and click Edit to set the SSID.

Step 3: On the Wireless LAN Setup → WLAN → Basic WLAN Setup page edit the RF type and Channel settings. Click Submit to apply the changes, and restart the AWK in master mode to complete the configuration process.
**Configuring the AWK as a Slave**

- **Step 1:** Set the operation mode of the AWK to Slave mode.
  Go to Wireless LAN Setup → Operation Mode, set the operation mode to Slave, and then click Submit to apply the change.

  ![Operation Mode](image)

- **Step 2:** Link to an existing SSID.
  Go to Wireless LAN Setup → WLAN → Basic WLAN Setup and click Site Survey to select an existing SSID, or directly enter an existing SSID in the text field.

- **Step 3:** Set the RF type for the AWK.
  On the Wireless LAN Setup → WLAN → Basic WLAN Setup page edit the RF type setting.
  Click Submit to apply the changes, and restart the AWK in slave mode to complete the configuration process.