# AWK-1137C Quick Installation Guide

#### Moxa AirWorks

# Edition 2.0, August 2017

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P/N: 1802011370011

# Overview

The AWK-1137C industrial Wi-Fi client meets the growing need for faster data transmission speeds and wider coverage by supporting IEEE 802.11n technology with a net data rate of up to 300 Mbps. The AWK-1137C combines two adjacent 20 MHz channels into a single 40 MHz channel to deliver a potent combination of greater reliability and more bandwidth. The AWK-1137C can operate on either the 2.4 or the 5 GHz band and is backward compatible with existing 802.11a/b/g deployments.

# **Hardware Setup**

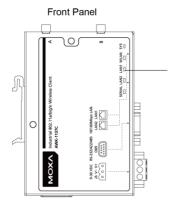
This section covers the hardware setup for the AWK-1137C.

#### **Package Checklist**

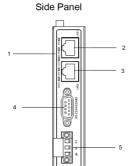
Moxa's AWK-1137C is shipped with the following items. If any of these items is missing or damaged, please contact your customer service representative for assistance.

- 1 AWK-1137C wireless client
- 2 2.4/5 GHz omni-directional antennas: ANT-WDB-ARM-0202
- DIN-rail kit
- Quick installation guide (printed)
- Warranty card

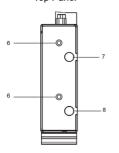
# Panel Layout of the AWK-1137C



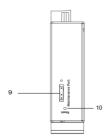
- System LEDs: SYS, WLAN, LAN1, LAN2, and SERIAL
- 2. LAN1: 10/100 BaseT(X) RJ45
- LAN2: 10/100 BaseT(X) RJ45 port
- 4. RS-232/422/485 DB9 serial port
- 5. 3-pin terminal block (ground/-/+)
- 6. M3 screw holes for antenna bracket
- 7. Antenna B RP-SMA
- 8. Antenna A RP-SMA



Top Panel



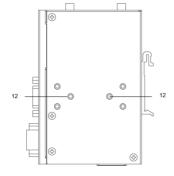
#### **Bottom Panel**



Rear Panel

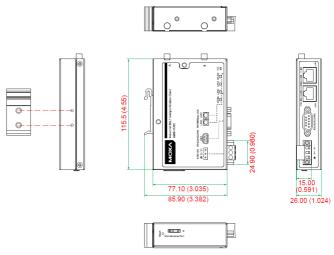


Back Panel



- 9. 3-pin maintenance port for engineers
- 10. Reset button
- 11. Screw holes for DIN-rail mounting kit
- 12. Screw holes for wall-mounting kit

#### **Mounting Dimensions**



Unit = mm (inch)

# **DIN-Rail Mounting**

The aluminum DIN-rail attachment plate comes attached to the back panel of the AWK-1137C when you take it out of the box. If you need to reattach the DIN-rail attachment plate to the AWK-1137C, make sure the stiff metal spring is situated towards the top, as shown in the figures below:

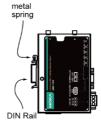
#### STEP 1:

spring.



# STEP 2:

Insert the top of the DIN rail into Gently push the device towards the the slot just below the stiff metal DIN rail until the DIN-rail attachment unit snaps into place as shown below:



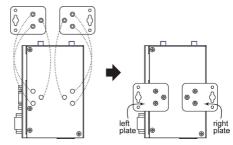
To remove the AWK-1137C from the DIN rail, reverse steps 1 and 2.

# Wall Mounting (Optional)

For some applications, it may be more convenient to mount the AWK-1137C to a wall, as illustrated below:

#### STEP 1:

Remove the aluminum DIN-rail attachment plate from the AWK-1137C, and then attach the wall-mounting plates with M3 screws, as shown in the adjacent diagrams.



#### STEP 2:

Mounting the AWK-1137C to a wall requires two screws. Use the AWK-1137C device, with wall-mounting plates attached, as a guide to mark the correct locations of the two 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 on the right.

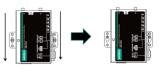


Do not drive the screws in all the way—leave a space of about 2 mm to allow room for sliding the wall-mounting panel between the wall and the screws.

**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 they are fixed to the wall.

#### STEP 3a:

Once the screws are fixed into the wall, insert the two screw heads through the large opening of the keyhole-shaped apertures, and then slide the AWK-1137C downwards, as indicated to the right. Tighten the two screws for added stability.



#### STEP 3b:

Alternatively, insert four screws directly through the AWK-1137C into the wall.





## WARNING

- This equipment is intended to be used in a Restricted Access Location, such as a dedicated computer room where only authorized service personnel or users can gain access. Such personnel must be instructed about the fact that the metal chassis of the equipment is extremely hot and may cause burns.
- Service personnel or users have to pay special attention and take special precautions before handling this equipment.
- Only authorized, well-trained professionals should be allowed to access the Restricted Access Location. Access should be controlled by the authority responsible for the location with a lock and key or a security identity system.
- External metal parts are hot!! Pay special attention or use special protection before handling this equipment.

# Wiring Requirements



#### WARNING

# Safety First!

Be sure to disconnect the power cord before installing and/or wiring your Moxa AWK-1137C.

Calculate the maximum possible current in each power wire and common wire. Observe all electrical codes that dictate 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.



This product is intended to be supplied by a UL-listed power adapter suitable for use at a Thermomechanical Analysis (TMA) of 75 degree Celsius, which output meets SELV circuit and LPS standards; output rated 9 - 30Vdc, 1.3A min. or 24Vdc, 0.49A min.



## **ATTENTION**

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

#### Grounding the Moxa AWK-1137C

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.

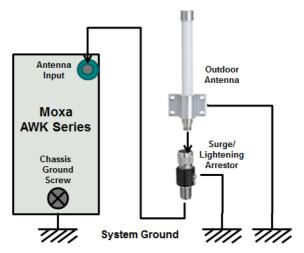


# **ATTENTION**

This product is intended to be mounted to a well-grounded mounting surface, such as a metal panel. There must be no electrical potential difference between any two grounding points; otherwise, there is a risk that the device could be destroyed.

# **Installing 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

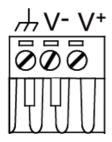
The top two pairs of contacts of the 10-contact terminal block connector on the AWK-1137C's top panel are used for the AWK-1137C's two DC inputs. The top and front views of the terminal block connector are shown below:



#### STEP 1:

Insert the negative/positive DC wires into the V-/V+ terminals.





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-1137C's side panel.

NOTE Input Terminal Block (CN1) is suitable for wire size range of 12-28 AWG (3.31-0.0804 mm²) and a torque value of 4.5 lb-in (0.51 Nm)



#### **ATTENTION**

If the AWK-1137C is connected to a motor or other similar type of equipment, be sure to use power isolation protection. Before connecting the AWK-1137C to the DC power inputs, make sure the DC power source voltage is stable.

#### **Using the Reset Button**

The **Reset** button is used to load the factory default settings. Use a pointed object to hold the **Reset** button down for five seconds to load the factory defaults.

#### **Activating AeroMag Function**

Push the **Reset** Button five times to activate AeroMag. To deactivate it again, push the **Reset** Button three times.

# **Installing the Antenna-Locking Clamp**

Use the antenna-locking clamp to secure the antennas to the AWK-1137C for added stability when you install the device in a high-vibration environment.

# STEP 1: Slide the clamps into the antenna port.



#### STEP 2:

Use screws to fix the clamps to the side panel of the AWK-1137C as





#### **Communication Connections**

#### 10/100BaseT(X) Ethernet Port Connection

The 10/100BaseT(X) ports located on the AWK-1137C's front panel are used to connect to Ethernet-enabled devices.

The pinouts for both the MDI (NIC-type) and MDI-X (HUB/switch-type) ports as shown below:

**MDI Port Pinouts** 

Pin	Signal	
1	Tx+	
2	Tx-	
3	Rx+	
6	Rx-	

**MDI-X Port Pinouts** 

Pin	Signal
1	Rx+
2	Rx-
3	Tx+
6	Tx-

8-pin RJ45



#### RS-232/422/485 Serial Port

The AWK-1137C has 1 RS-232/422/485 serial port with DB9 connector for serial-to-WLAN connectivity. The pin assignments for the serial ports are shown below:

Pin	RS-232	RS-422/485 (4W)	RS-485 (2W)
1	DCD	TxD-(A)	-
2	RxD	TxD+(B)	-
3	TxD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR	-	-
7	RTS	-	-
8	CTS	-	-
9	-	-	-



# **LED Indicators**

The front and side panel of the Moxa AWK-1137C contains several LED indicators. The function of each LED is described in the table below:

LED	Color	State	Description
Green	On	System start up complete and the system is in operation	
	Green	Blinking + Beeps (Interval: 1 second)	Device has been located by the Wireless Search Utility
SYS		On	System is booting or a system booting error has occurred
Red	Blinking (Interval: 0.5 second)	IP address conflict	
		Blinking (Interval: 1 second)	Cannot obtain an IP address from the DHCP server
	Green	On (RSSI > 35)	WLAN interface has connected
WLAN		Blinking	Data communication via WLAN
WLAN	Amber	On (RSSI < 35)	WLAN interface has connected
		Blinking	Data communication via WLAN
LAN1		On	Ethernet LAN 1 interface has connected
Green	Blinking	Data communication via Ethernet LAN 1	
LAN2	6	On	Ethernet LAN 2 interface has connected
	Green	Blinking	Data communication via Ethernet LAN 2
Serial	Amber	Blinking	Data Transmission via serial data port

# **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 802.10 VLAN	
Spread Spectrum and Modulation (typical)	<ul> <li>DSSS with DBPSK, DQPSK, CCK</li> <li>OFDM with BPSK, QPSK, 16QAM, 64QAM</li> <li>802.11b: CCK @ 11/5.5 Mbps, DQPSK @ 2 Mbps, DBPSK @ 1 Mbps</li> <li>802.11a/g: 64QAM @ 54/48 Mbps, 16QAM @ 36/24 Mbps, QPSK @ 18/12 Mbps, BPSK @ 9/6 Mbps</li> <li>802.11n: 64QAM @ 300 Mbps to BPSK @ 6.5 Mbps (multiple rates supported)</li> </ul>	

WLAN Interface	
Operating Channels	US:
(central frequency)	<ul> <li>2.412 to 2.462 GHz (11 channels)</li> </ul>
	• 5.180 to 5.240 (4 channels)
	• 5.260 to 5.320 (4 channels)
	• 5.500 to 5.700 GHz (8 channels, excluding
	5.600 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)
	• 5.180 to 5.240 GHz (4 channels)
	• 5.260 to 5.320 GHz (4 channels)
	• 5.500 to 5.700 GHz (11 channels)
Cocurity	
Security	SSID broadcast enable/disable     Firewall for MAC/IR/Protocol/Port based
	Firewall for MAC/IP/Protocol/Port-based     Fiboria a
	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:
	<ul> <li>Typ. 26±1.5 dBm @ 1 Mbps</li> </ul>
	• Typ. 26±1.5 dBm @ 2 Mbps
	• Typ. 26±1.5 dBm @ 5.5 Mbps
	• Typ. 25±1.5 dBm @ 11 Mbps
	802.11g:
	<ul> <li>Typ. 23±1.5 dBm @ 6 to 24 Mbps</li> </ul>
	<ul> <li>Typ. 22±1.5 dBm @ 36 Mbps</li> </ul>
	<ul> <li>Typ. 20±1.5 dBm @ 48 Mbps</li> </ul>
	• Typ. 19±1.5 dBm @ 54 Mbps
	802.11n (2.4 GHz):
	<ul> <li>Typ. 23±1.5 dBm @ MCS0/8 20 MHz,</li> </ul>
	• Typ. 17±1.5 dBm @ MCS7/15 20 MHz
	<ul> <li>Typ. 23±1.5 dBm @ MCS0/8 40 MHz,</li> </ul>
	• Typ. 17±1.5 dBm @ MCS7/15 40 MHz
	802.11a:
	<ul> <li>Typ. 23±1.5 dBm @ 6 to 24 Mbps</li> </ul>
	<ul> <li>Typ. 21±1.5 dBm @ 36 Mbps</li> </ul>
	<ul> <li>Typ. 20±1.5 dBm @ 48 Mbps</li> </ul>
	• Typ. 18±1.5 dBm @ 54 Mbps
	802.11n (5 GHz):
	<ul> <li>Typ. 23±1.5 dBm @ MCS0/8 20 MHz,</li> </ul>
	• Typ. 18±1.5 dBm @ MCS7/15 20 MHz
	<ul> <li>Typ. 23±1.5 dBm @ MCS0/8 40 MHz,</li> </ul>
	• Typ. 18±1.5 dBm @ MCS7/15 40 MHz

**NOTE** Based on regional regulations, the maximum transmission power allowed on UNII bands is restricted in the firmware, as indicate below.

	US	EU	JP
2.4 GHz	26 dBm	18 dBm	18 dBm
5 GHz (UNII-1)	23 dBm	23 dBm	23 dBm
5 GHz (UNII-2)	23 dBm	23 dBm	23 dBm
5 GHz (UNII-2e)	23 dBm	23 dBm	23 dBm
5 GHz (UNII-3)	23 dBm		

-89 dBm @ 1 Mbps, -89 dBm @ 2 Mbps -89 dBm @ 5.5 Mbps, -88 dBm @ 11 Mbps

802.11b:

Receiver Sensitivity

	-09 dbiii @ 3.3 Mbps, -00 dbiii @ 11 Mbps	
	• 802.11g:	
1	-88 dBm @ 6 Mbps, -88 dBm @ 9 Mbps	
	-88 dBm @ 12 Mbps, -87 dBm @ 18 Mbps	
	-84 dBm @ 24 Mbps, -81 dBm @ 36 Mbps	
	-77 dBm @ 48 Mbps, -75 dBm @ 54 Mbps	
	• 802.11n (2.4 GHz):	
	-70 dBm @ MCS7 20 MHz,	
	-70 dBm @ MCS15 20 MHz,	
	-64 dBm @ MCS7 40 MHz,	
	-65 dBm @ MCS15 40 MHz	
	• 802.11a:	
	-90 dBm @ 6 Mbps, -88 dBm @ 9 Mbps	
	-87 dBm @ 12 Mbps, -85 dBm @ 18 Mbps	
	-81 dBm @ 24 Mbps, -78 dBm @ 36 Mbps	
	-74 dBm @ 48 Mbps, -73 dBm @ 54 Mbps	
	• 802.11n (5 GHz):	
	-69 dBm @ MCS7 20 MHz,	
	-70 dBm @ MCS15 20 MHz,	
	-64 dBm @ MCS7 40 MHz,	
	-66 dBm @ MCS15 40 MHz	
Protocol Support		
General Protocols	Proxy ARP, DNS, HTTP, HTTPS, IP, ICMP, SNTP,	
	TCP, UDP, RADIUS, SNMP, DHCP, VLAN	
Interface		
Default Antennas	2 dual-band omni-directional antennas, 1.8 dBi,	
	RP-SMA (male)	
Connector for External	RP-SMA (female), 500 V insulation	
Antennas		
LAN Ports	2, RJ45, 10/100BaseT(X) auto negotiation speed,	
	F/H duplex mode, and auto MDI/MDI-X	
	connection	
Serial Port	1, RS-232/422/485, DB9 male connector	
Reset	Present	
LED to disease	SYS, WLAN, LAN1, LAN2, Serial	
LED Indicators		
Physical Characteris		
<b>Physical Characteris</b>	tics	

Installation	DIN-rail mounting (standard),		
instandation	wall mounting (optional)		
Environmental Limit	, , ,		
Operating	Standard Models: 0 to 60°C (32 to 140°F)		
Temperature	Wide Temp. Models: -40 to 75°C (-40 to 167°F)		
Storage Temperature	-40 to 85°C (-40 to 185°F)		
Ambient Relative	5% to 95% (non-condensing)		
Humidity	15 70 to 55 70 (Horr condensing)		
Power Requirements	I		
Input Voltage	9 to 30 VDC		
Input Current	1.3A@9VDC, 0.39A@30VDC, 0.49A@24VDC		
Connector	3-pin removable terminal block, 500 V insulation		
Power Consumption	11.7 W		
Reverse Polarity	Present		
Protection	. 1 656.110		
Standards and Certifications			
Safety	UL 60950-1, EN 60950-1		
EMC	EN 61000-6-2/61000-6-4, EN 55032/55024		
EMI	CISPR 22, FCC Part 15B Class B		
EMS	IEC 61000-4-2 ESD: Contact 8 kV; Air 15 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: 10 V		
	IEC 61000-4-8		
Radio	EN 301 489-1/17, EN 300 328, EN 301 893, MIC,		
	FCC ID SLE-1137C, WPC, ANATEL, KC, RCM,		
	SRRC		
Note: Check Moxa's website for the most up-to-date certification status.			
Reliability	•		
MTBF	1,125,942 hrs		
Warranty			
Warranty Period	5 years		
Details	See www.moxa.com/support/warranty.aspx		



- The AWK-1137C is **NOT** a portable mobile device and should be located at least 20 cm away from the human body.
- The AWK-1137C is NOT designed for the general public. A well-trained technician is required to deploy AWK-1137Cs and safely establish a wireless network.



# **ATTENTION**

Use the antennas correctly: The 2.4 GHz antennas are needed when the AWK-1137C operates in IEEE 802.11b/g/n. The 5 GHz antennas are needed for operation in IEEE802.11a/n. Make sure that the antennas are installed in a safe area, which is covered by a lightning protection or surge arrest system.



This device complies with part 15 of the FCC Rules. The operation of this device is subject to the following conditions:

- 1. This device must not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operations.



# **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 (NEC) Article 810; Canada: Canadian Electrical Code, Section 54).

**NOTE** For installation flexibility, you may select either antenna A or antenna B on the top panel. Make sure the antenna connection matches the antennas configured in the AWK-1137C 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.

# **Federal Communications Commission Interference**

#### Statement

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.



CAUTION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment Type message content here.



# WARNING

RF exposure:

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance. This radio transmitter FCCID: SLE-1137C has been approved by FCC to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

# Software Setup

This section covers the software setup for AWK models in general.

#### 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.
- 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.



**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 **255.255.25.0**, 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.

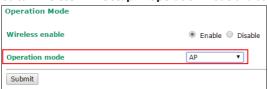
**NOTE** Ensure that there are no IP address conflicts when you configure more than one AWK on the same subnet.

#### Point-to-Multipoint Scenario (AP/Client Mode)



# Configuring the AWK as an AP

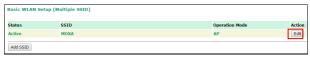
Step 1: Set the operation mode of the AWK to AP mode.
 Go to Wireless LAN Setup → Operation Mode and select AP.



NOTE The default operation mode for the AWK is AP.

Step 2: Set up your own SSID.

Go to Wireless LAN Setup  $\rightarrow$  WLAN  $\rightarrow$  Basic WLAN Setup and click Edit to set the SSID.

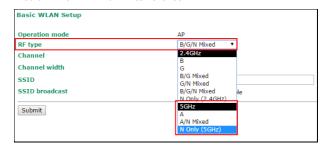




NOTE The default SSID is MOXA.

medium with minimum interference.

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.



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



- · Step 2: Set up your own SSID.
  - Go to Wireless LAN Setup  $\rightarrow$  WLAN  $\rightarrow$  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.



Step 2: Link to an existing SSID.

Go to Wireless LAN Setup  $\rightarrow$  WLAN  $\rightarrow$  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  $\rightarrow$  WLAN  $\rightarrow$  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