

Advantech AE Technical Share Document

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Category	<input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP	Related OS	N/A
Abstract	The configuration guide of WISE-6610 quick setup wizard		
Keyword	WISE, wizard		
Related Product	WISE-6610 Series		

■ **Description**

The document is the configuration guide of WISE-6610 quick setup wizard.

■ **Requirement**

1. WISE-6610 firmware version: v6.2.8
2. LoRaWAN Gateway user module: v2.1.3-20211215T033341Z or above.

■ **Solution - step by step**

Please follow the FAQ to setup WISE-2410 or WISE-4610 connected to WISE-6610.

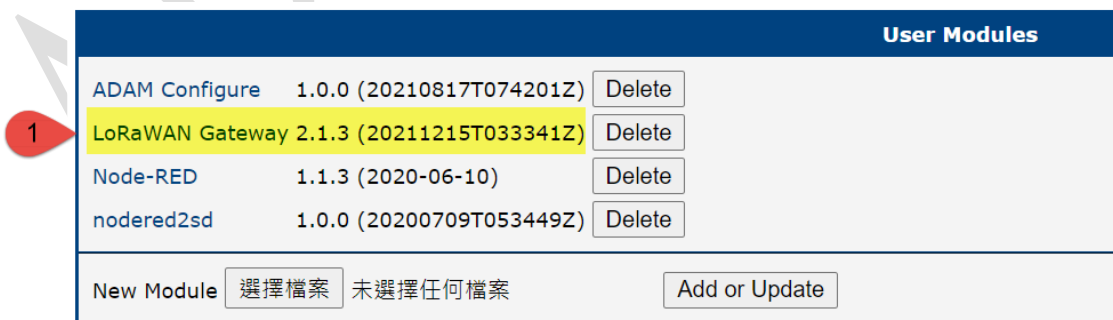
FAQ: How to connect WISE-2410 with WISE-6610?

<https://www.advantech.tw/support/details/faq?id=1-1RTJSL4>

FAQ: How to connect WISE-4610 with WISE-6610?

<https://www.advantech.tw/support/details/faq?id=1-1QFTV45>

Step 1. Install LoRaWAN Gateway User Module into v2.1.3-BETA-20211210T082813Z or above.



Step 2. After installation, go to LoRaWAN Gateway WebGUI and click “Wizard”.

Step 3. Select frequency and group. If user don't need to select frequency, please click "Skip" to the next step.

Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel STD	Channel FSK		
902.5 Mhz	902.7 Mhz	902.9 Mhz	903.1 Mhz	903.3 Mhz	903.5 Mhz	903.7 Mhz	903.0 Mhz Band	Disabled		
904.1 Mhz	904.3 Mhz	904.5 Mhz	904.7 Mhz	904.9 Mhz	905.1 Mhz	905.3 Mhz	904.6 Mhz Band	Disabled		
905.7 Mhz	905.9 Mhz	906.1 Mhz	906.3 Mhz	906.5 Mhz	906.7 Mhz	906.9 Mhz	906.2 Mhz Band	Disabled		
907.3 Mhz	907.5 Mhz	907.7 Mhz	907.9 Mhz	908.1 Mhz	908.3 Mhz	908.5 Mhz	907.8 Mhz Band	Disabled		
908.9 Mhz	909.1 Mhz	909.3 Mhz	909.5 Mhz	909.7 Mhz	909.9 Mhz	910.1 Mhz	909.4 Mhz Band	Disabled		
910.5 Mhz	910.7 Mhz	910.9 Mhz	911.1 Mhz	911.3 Mhz	911.5 Mhz	911.7 Mhz	911.0 Mhz Band	Disabled		
912.1 Mhz	912.3 Mhz	912.5 Mhz	912.7 Mhz	912.9 Mhz	913.1 Mhz	913.3 Mhz	912.6 Mhz Band	Disabled		
913.7 Mhz	913.9 Mhz	914.1 Mhz	914.3 Mhz	914.5 Mhz	914.7 Mhz	914.9 Mhz	914.2 Mhz Band	Disabled		
923.4 Mhz	922.2 Mhz	922.4 Mhz	922.6 Mhz	922.8 Mhz	923.0 Mhz	922.0 Mhz	922.1 Mhz Band	921.8 Mhz Band		
923.4 Mhz	923.6 Mhz	923.8 Mhz	924.0 Mhz	924.2 Mhz	924.4 Mhz	924.6 Mhz	924.5 Mhz Band	924.8 Mhz Band		
AU915-0	915.2 Mhz	915.4 Mhz	915.6 Mhz	916.0 Mhz	916.2 Mhz	916.4 Mhz	916.6 Mhz	915.9 Mhz Band	Disabled	
AU915-1	916.8 Mhz	917.0 Mhz	917.2 Mhz	917.4 Mhz	917.6 Mhz	917.8 Mhz	918.0 Mhz	917.5 Mhz Band	Disabled	
AU915-2	918.4 Mhz	918.6 Mhz	918.8 Mhz	919.0 Mhz	919.2 Mhz	919.4 Mhz	919.6 Mhz	919.1 Mhz Band	Disabled	
AU915-3	920.0 Mhz	920.2 Mhz	920.4 Mhz	920.6 Mhz	920.8 Mhz	921.0 Mhz	921.2 Mhz	920.7 Mhz Band	Disabled	
AU915-4	921.6 Mhz	921.8 Mhz	922.0 Mhz	922.2 Mhz	922.4 Mhz	922.6 Mhz	922.8 Mhz	923.0 Mhz	922.3 Mhz Band	Disabled
AU915-5	923.2 Mhz	923.4 Mhz	923.6 Mhz	923.8 Mhz	924.0 Mhz	924.2 Mhz	924.4 Mhz	924.6 Mhz	923.9 Mhz Band	Disabled
AU915-6	924.8 Mhz	925.0 Mhz	925.2 Mhz	925.4 Mhz	925.6 Mhz	925.8 Mhz	926.0 Mhz	926.2 Mhz	925.5 Mhz Band	Disabled
AU915-7	926.4 Mhz	926.6 Mhz	926.8 Mhz	927.0 Mhz	927.2 Mhz	927.4 Mhz	927.6 Mhz	927.8 Mhz	927.1 Mhz Band	Disabled
KR920	922.1 Mhz	922.3 Mhz	922.5 Mhz	922.7 Mhz	922.9 Mhz	923.1 Mhz	923.3 Mhz	Disabled	Disabled	Disabled

After selection, click "Save and Next" until the pop-up window shows "Success" message.

Step 4. Please wait system connection for about 15 seconds.

Step 5. Set Profile ADR. The default setting is "Auto-Adjust" for automatically increasing/decreasing data rate between node and gateway.

LoRaWAN Gateway Settings
Step 2: ADR settings

Profile: US902_WISE6610_Handler ▼
 ADR: Auto-Adjust ▼

Previous Skip Save & Next

※ User can also skip this step or go to previous page.

Step 6. Create Nodes with ABP or OTAA.

Please check the LoRa node setting and copy the corresponding parameters into it.

◆ **ABP mode**

https://172.17.6.178/module/lora/cgi-bin/wizard_node.cgi?profil... WISE-4610-S617-TA

LoRaWAN Gateway Settings
Step 3: Create LoRaWAN node

Join Mode: ABP ▼
 Profile: AS923_WISE6610_Handler ▼
 App Arguments: WISE-S617 ▼
 Devaddr *: FF4C916F
 Network Session Key *: 00000000000000000000000000000011
 Application Session Key *: 00000000000000000000000000000011

ABP Table			
Devaddr	Profile	App Arguments	Network Session Key

OTAA Table			
DevEUI	Profile	App Arguments	AppEUI

Previous Add Node Delete Node Submit

Device Configuration

Operation Region: TW ▼
 RF Operation Mode: LoRaWAN ▼
 Activation Mode: ABP ▼
 Adaptive Data Rate:
 Device Address: FF4C916F
 Device EUI: 74FE48FFFF4C916F
 Network Session Key: 00000000000000000000000000000000

Application Information

Application Session Key: 00000000000000000000000000000000

◆ **OTAA mode**

WISE-4610-S617-TA

LoRaWAN Gateway Settings
Step 3: Create LoRaWAN node

Join Mode: OTAA ▼
 Profile: AS923_WISE6610_Handler ▼
 App Arguments: WISE-S617 ▼
 DevEUI *: 74FE48FFFF4C916F
 AppEUI *: 0000000053363137
 AppKey *: 00000000000000000000000000000011
 Node: e.g. ABCD1234

ABP Table			
Devaddr	Profile	App Arguments	Network Session Key

OTAA Table			
DevEUI	Profile	App Arguments	AppEUI

Previous Add Node Delete Node Submit

Device Configuration

Operation Region: TW ▼
 RF Operation Mode: LoRaWAN ▼
 Device Class: Class A ▼
 Activation Mode: OTAA ▼
 Adaptive Data Rate:
 Device EUI: 74FE48FFFF4C916F

Application Information

Application EUI: 0000000053363137
 Application Key: 00000000000000000000000000000000

Step 7. All nodes will be shown in the ABP/OTAA table. User can also delete specific one. Please click “Submit” after all nodes are creating.

LoRaWAN Gateway Settings						
Step 3: Create LoRaWAN node						
Join Mode	ABP					
Profile	AS923_WISE6610_Handler					
App Arguments						
Devaddr *	e.g. ABCD1234					
Network Session Key *	e.g. FEDCBA9876543210FEDCBA98765					
Application Session Key *	e.g. FEDCBA9876543210FEDCBA98765					
ABP Table						
Devaddr	Profile	App Arguments	Network Session Key	Application Session Key	Delete	
FF54D520	EU868_WISE6610_Handler	WISE-2410	00000000000000000000000000000011	00000000000000000000000000000011	<input type="checkbox"/>	
FF556E5E	AS923_WISE6610_Handler	Advantech	00000000000000000000000000000011	00000000000000000000000000000011	<input type="checkbox"/>	
OTAA Table						
DevEUI	Profile	App Arguments	AppEUI	AppKey	Node	Delete
74FE48FFFF4C916F	AS923_WISE6610_Handler	WISE-S617	000000053363137	00000000000000000000000000000011		<input type="checkbox"/>
Previous		Add Node	Delete Node	Submit		

Step 8. Those nodes can be displayed on Network Server.

◆ OTAA mode – Commissioned

The screenshot shows the 'Devices List' page in the Network Server. On the left, there is a navigation menu with 'Commissioned' selected. The main area displays a table with the following data:

DevEUI	Profile	App Arguments	Last Join	Node
74FE48FFFF4C916F	AS923_WISE6610_Handler	WISE-S617		

Buttons for 'Add filter', 'Export', and 'Create' are visible at the top right. The page indicates '1 - 1 of 1' devices.

◆ ABP mode – Activated (Nodes)

The screenshot shows the 'Nodes List' page in the Network Server. On the left, 'Activated (Nodes)' is selected in the navigation menu. The main area displays a table with the following data:

DevAddr	Profile	App Arguments	FCnt Up	FCnt Down	Battery	D/L SNR	Last RX	Status
FF556E5E	AS923_WISE6610_Handler	Advantech		0				
FF54D520	EU868_WISE6610_Handler	WISE-2410		0				

Buttons for 'Add filter', 'Export', and 'Create' are visible at the top right.