AD\ANTECH Enabling an Intelligent Planet

Advantech AE Technical Share Document

Date	2022/8/16	SR#	1-4932537851				
Category	□FAQ ■SOP	Related OS	N/A				
Abstract	The configuration guide	of WISE-6610 q	uick setup wizard				
Keyword	WISE, wizard						
Related Product	WISE-6610 Series						

Description

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

■ <u>Requirement</u>

- 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? <u>https://www.advantech.tw/support/details/faq?id=1-1RTJSL4</u> FAQ: How to connect WISE-4610 with WISE-6610? <u>https://www.advantech.tw/support/details/faq?id=1-1QFTV45</u>

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

				User Modules
	ADAM Configure	1.0.0 (20210817T074201Z)	Delete	
	LoRaWAN Gateway	2.1.3 (20211215T033341Z)	Delete	
-	Node-RED	1.1.3 (2020-06-10)	Delete	
	nodered2sd	1.0.0 (20200709T053449Z)	Delete	
	New Module 選擇	當案未選擇任何檔案	Add or Update	

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

AD\-	ANTECH	Enabling an Intellig	ent Planet		
	Navigation			LoRaWAN	I Gateway Settings
-	Router			LoRaW	AN Radio Setting
2	Wizard	Model Name	WISE-6610-N100C-A]	
	 LoRaWAN Radio Packet Forward 	Radio Enable	On 🗸		
	LoRaWAN Status	Flow on MQTT	Off 🗸		
	• Data Chart Network Server	Radio 0 Main Frequency(KHz)	923000]	
	MQTT	Radio 1 Main Frequency(KHz)	922000]	
	<u>Storage</u>		Enable	Radio Select	Offset(KHz)
	Application Server	Channel 00	On 🗸	Radio 0	▶ 200

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

Navigation						LoRaWAN Gate	way Settings					
Router	Step 1: LoRaWAN radio settings											
Wizard LoRaWAN Radio	US902-0(902.3Mhz-90 x US902-0(902.3Mhz-903 US902-1(903.9Mhz-905	 7Mhz std 903.0Mhz) 3Mhz std 904.6Mhz) 	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6	Channel 7	Channel STD	Channel FSK	
Packet Forward	US902-2(905.5Mhz-906	9Mhz std 906 2Mhz)	902.5 Mhz	902.7 Mhz	902.9 Mhz	903.1 Mhz	903.3 Mhz	903.5 Mhz	903.7 Mhz	903.0 Mhz Bandi	Disabled	
LoRaWAN Status	US902-3(907.1Mhz-908 US902-4(908.7Mhz-910	5Mhz std 907.8Mhz) 1Mbz std 909.4Mhz)	904.1 Mhz	904.3 Mhz	904.5 Mhz	904.7 Mhz	904.9 Mhz	905.1 Mhz	905.3 Mhz	904.6 Mhz Bandi	Disabled	
Network Server	US902-5(910.3Mhz-911 US902-6(911.9Mhz-913	7Mhz std:911.0Mhz) 3Mhz std:912.6Mhz)	905.7 Mhz	905.9 Mhz	906.1 Mhz	906.3 Mhz	906.5 Mhz	906.7 Mhz	906.9 Mhz	906.2 Mhz Bandi	Disabled	
Storage	US902-7(913.5Mhz-914 AS923-1(922.0Mhz-923	9Mhz std 914.2Mhz) 4Mhz sld 922 1Mhz)	907.3 Mhz	907.5 Mhz	907.7 Mhz	907.9 Mhz	908.1 Mhz	908.3 Mhz	908.5 Mhz	907.8 Mhz Bandi	Disabled	
Application Server	AS923-2(923.2Mhz-924	6Mhz std:924.5Mhz)	908.9 Mhz	909.1 Mhz	909.3 Mhz	909.5 Mhz	909.7 Mhz	909.9 Mhz	910.1 Mhz	909.4 Mhz Bandi	Disabled	
Licenses	L AU915-1(916.8Mhz-918	2Mhz std:917.5Mhz)	910.5 Mhz	910.7 Mhz	910.9 Mhz	911.1 Mhz	911.3 Mhz	911.5 Mhz	911.7 Mhz	911.0 Mhz Bandy	Disabled	
Return to Router	AU915-2(918.4Mhz-919 AU915-3(920.0Mhz-921	8Mhz std:919.1Mhz) 4Mhz std:920.7Mhz)	912.1 Mhz	912.3 Mhz	912.5 Mhz	912.7 Mhz	912.9 Mhz	913.1 Mhz	913.3 Mhz	912.6 Mhz Bandi	Disabled	
	AU915-4(921.6Mhz-923 AU915-5(923.2Mhz-924	0Mhz std:922.3Mhz) - 6Mhz std:923.9Mhz)	913.7 Mhz	913.9 Mhz	914.1 Mhz	914.3 Mhz	914.5 Mhz	914.7 Mhz	914.9 Mhz	914.2 Mhz Bandi	Disabled	
	AU915-6(924.8Mhz-926 AU915-7(926.4Mhz-927	2Mhz std:925.5Mhz) 8Mhz std:927.1Mhz)	923.4 Mhz	922.2 Mhz	922.4 Mhz	922.6 Mhz	922.8 Mhz	923.0 Mhz	922.0 Mhz	922.1 Mhz Bandi	921.8 Mhz Band	
	KR920(922 1Mhz-923.3	Mhz std Disabled)	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 Bandy	
	AU915-0	915.2 Mhz	915.4 Mhz	915.6 Mhz	915.8 Mhz	916.0 Mhz	916.2 Mhz	916.4 Mhz	916.6 Mhz	915.9 Mhz Bandi	Disabled	
	AU915-1	916.8 Mhz	917.0 Mhz	917.2 Mhz	917.4 Mhz	917.6 Mhz	917.8 Mhz	918.0 Mhz	918.2 Mhz	917.5 Mhz Bandy	Disabled	
	AU915-2	918.4 Mhz	918.6 Mhz	918.8 Mhz	919.0 Mhz	919.2 Mhz	919.4 Mhz	919.6 Mhz	919.8 Mhz	919.1 Mhz Bandy	Disabled	
	AU915-3	920.0 Mhz	920.2 Mhz	920.4 Mhz	920.6 Mhz	920.8 Mhz	921.0 Mhz	921.2 Mhz	921.4 Mhz	920.7 Mhz Bandi	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 Bandi	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 Bandi	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 Bandi	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	
	Skip Save 8	& Next										

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

172.17.6.178 顯示	
Success	
	確定

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

	LoRaWAN Gateway Settings
	Step 1: LoRaWAN radio settings
Waiting services are ready	
Skip Save & Next	

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

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		LoRaWAN Gateway Settings
		Step 2: ADR settings
Profile US902_WISE6610_Handle	er 🗸	
ADR Auto-Adjust	<u> </u>	
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.

	LoRaWAN Gateway S				
	Step 3: Create LoRoW	Operation	TW	~	
loin Mode	ABP	Region			
Profile	AS923_WISE6610_Handler	RF Operation	LoRaWAN	~	Devic
App Arguments	WISE-S617 VISE-S617	Mode			
Devaddr *	FF4C916F	Activation	ABP	~	
Network Session	000000000000000000000000000000000000000	Mode			
Application Session Key *	000000000000000000000000000000000000000	Adaptive Data Rate			
	ABP Table	Device	EE40046E		
Devaddr Profile	App Arguments Network Session H	Address	FF4C910F		
	OTAA Table	Davias FIL	745540555540	0465	
DevEUI Prot	dd Nada Dalata Nada Submit	Device EUI	74FE40FFFF40	910F	
Flevious		Network	000000000000000000000000000000000000000	0000000000	00
		Session Key			
		Application Inf	ormation		

• OTAA mode

	LoRaWAN Gateway Settings	WISE-4610-S617TTA					
	Step 3: Create LoRoWAN node						
Join <mark>Mod</mark> e	OTAA 🗸	1 Information	Operation	TW 🗸			
Profile	AS923_WISE6610_Handler	Configuration	Region				
App Arguments	WISE-S617 🗸 🥌		RF Operation	LoRaWAN 🗸	Device Class	Class A	~
DevEUI *	74FE48FFFF4C916F	I/O Status	Mode				
AppEUI *	000000053363137		Activation Mode	OTAA 🗸			
АррКеу *	000000000000000000000000000000000000000						
Node	e.g. ABCD1234		Adaptive Data Rate				
Davie data Destila	ABP Table		Device EUI	74FE48FFFF4C916F			
Devador Prome	OTAA Table						
DevEUI Prof	ile App Arguments AppEUI		Application Inf	ormation			
Previous	dd Node Delete Node Submit		Application EUI	000000053363137			
			Application Key	000000000000000000000000000000000000000	000000		

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.

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	LoRaWAN Gateway Settings							
	Step 3: Create LoRoWAN node							
Join Mode		ABP	~					
Profile		AS923_WISE6610_	_Handler	~				
App Arguments				~				
Devaddr *		e.g. ABCD1234						
Network Session	letwork Session Key * e.g. FEDCBA9876543210FEDCBA9876!							
Application Sessio	Application Session Key * e.g. FEDCBA9876543210FEDCBA9876!							
L				ABP Table	e			
Devaddr	Profile	App Argumen	nts Ne	twork Session Key		Application Session Key		Delete
FF54D520 EU868_V	VISE6610_Han	dler WISE-2410	000000000	000000000000000000000000000000000000000	00011	000000000000000000000000000000000000000	00011	
FF556E5E AS923_V	VISE6610_Han	dler Advantech	000000000	000000000000000000000000000000000000000	00011	000000000000000000000000000000000000000	00011	
				OTAA Tab	le			
DevEUI	Pi	ofile App	p Arguments	AppEUI		АррКеу	Node	Delete
74FE48FFFF4C916F	AS923_WISE	6610_Handler WIS	E-S617	000000053363137	0000000	000000000000000000000000000000000000000		
Previous	Add Node	Delete Node	Submit					

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

 OTAA mode 	 Commissioned 				
h Infrastructure	Devices List		▼ Add	filter - O Export	+ Create
Se Devices 🗸 🗸	Devices List				
Profiles	🗆 🗸 DevEUI	Profile	App Arguments	Last Join	Node
Commissioned	74FE48FFFF4C916F	AS923_WISE6610_Handler	WISE-S617		
Activated (Nodes)					
Ø Ignored					1 - 1 of 1
♦ ABP mode –	Activated (Nodes)				
	Nodes List		T Add	filter - O Export	+ Create
S Devices V					
C Profiles	DevAddr Profile	App Arguments FCnt	t Up FCnt Down Battery	D/L SNR Last RX	A Status
Commissioned	□ FF556E5E AS923_WISE6610_	Handler Advantech	0		
Activated (Nodes)	FF54D520 EU868_WISE6610_	Handler WISE-2410	0		
Ø Ignored					