

XBee





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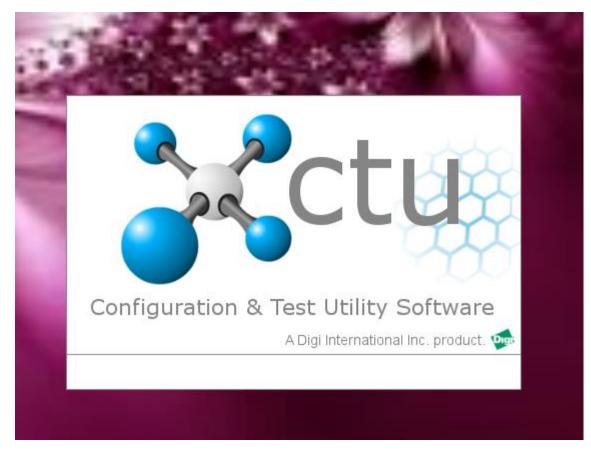
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ABOUT XBee

XBee is very easy and popular wireless device. It is a transceiver, it can transmit and it receive data wirelessly. There are several types of XBee module. The very popular XBee is Series 1 (802.15.4), comes with the firmware to create connection for point to point or star network. But bear in mind, many people actually thought it is using ZigBee protocol, but it is not compliance to ZigBee because it uses the low layer of ZigBee protocol only

SOFTWARE XCTU V6.1.0.



Click on add devices



Radio Modules	Configuration
Click on Add devices or Click on Add devices of add radio modules to the list.	Change between the Configuration, Consoles, Configuration, Consoles, Network and Device Cloud working modes Lay their functionality in king area.

Choose your corresponding comport

;+: хсти	🛃 Add radio device	
	Add a radio module Select and configure the Serial/USB port where the radio module is connected to.	
Radio Modules Name: Function: XBEE WI-FI Port: COM38 - 9600/8/N/1/N - AT MAC: 000000409DSD98CE		
	Finish Cancel	

Click on finish



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Radio Modules	Radio Configuration	
Name: Function: XBEE WI-FI Port: COM38 - 9600/8/N/1/N - AT MAC: 000000409D5D98CE	Select a radio module from the list to display its properties and configure it.	

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Radio Modules	Radio Configuration [- 000000409D5D98CE]	
Name: Science Function: XBEE WI-FI Port: COM38 - 9600/8/N/1/N - AT	S 🖉 🕍 🚵 ·	Parameter
MAC: 000000409D5D98CE	Firmware information	Written and default
	Product family: XB2B-WF Function set: XBEE WI-FI	Written and not default
	Firmware version: 2021	Herror in setting
Reading radio mo		
click	ding radio module settings	Active Scan
		Active Scan
Rea	ding AT parameter: MK	
	Stop _	٢
	() DI Device Cloud Indicator	٢
	() CH Channel	٢
	LM Link Margin	٢
	PL Power Level Highest [4]	I (S) (Ø)
	Network Change Network Settings	
	(i) AH Network type Infrastructure	e [2] 💌 🕲 🏈

Click on update firmware



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Radio Modules	Radio Configuration [- 000000409D5D98CE]	
Name: Function: XBEE WI-FI Port: CON38 - 9600/8/N/1/N - AT		Parameter
MAC: 000000409DSD98CE	Update firmware	Written and Written and Wr Changed bur Wr Error in setti
	Select the product family of your device, the new function set and the firmware version to flash: Product family Function set Firmware version XB2B-WF XBEE WI-FI 2023 (Newest) 2023	Active Scan
	2004	
	Force the module to maintain its current configuration. Select current	
	Finish Cancel	
	AH Network type Infrastructure [2]	•
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Radio Modules	Radio Configuration [- 000000409D5D98CE]	
Name: Function: XBEE WI-FI Port: COM38 - 9600/8/N/1/N - AT		() Parameter
MAC: 000000409D5D98CE	C Update firmware	Written and de
	Configure the firmware that will be flashed to the radio module. Updating radio firmware Updating radio firmware	Changed but n
	Select t Control to the select t Control to the select to	Active Scan
	Show details	(
		(
	Force the module to maintain its current configuration.	(
	Finish Cancel	



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Radio Modules	Radio Configuration [- 000000409D5D98CE]	
Function: XBEE WI-FI Port: COM38 - 9600/8/N/1/N - AT	· 🚨 🚵 📎 🔊	(Parame
MAC: 000000409D 5D98CE		Written a Written a Changed Error in su Active Scan
	Force the module to maintain its current configuration. Select current Finish Cancel	<u> </u>

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Radio Modules	Radio Configuration [- 000000409D5D98CE]	
Name: Function: XBEE VII-FI Port: COM38 - 9600/8/N/1/N - AT		(Paramete
MAC: 000000409D5D98CE	↓ Update firmware	Written and Written and
	Configure the firmware that will be flashed to the radio module. Updating radio firmware	Changed bu
	Select ti Reading ATO module settings Reading AT parameter: TP XID23 Show details Close	Active Scan
	Force the module to maintain its current configuration. Select current	
	Finish Cancel	_



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Radio Modules	Radio Configuration [- 000000409D5D98CE]	
Name: Function: XBEE WI-FI Port: COM38 - 9600/8/N/1/N - AT MAC: 000000409D5D998CE	Image: Second state state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state	R Parame
	Update the radio module firmware Configure the firmware that will be firshed to the radio module. Updating radio firmware Select t Other Radio firmware has been updated successfully. City Close Close	Active Scan
	Force the module to maintain its current configuration. Select current Finish Cancel	P] ¥

Radio Modules	🔅 Radio Configuration [- 000000409D5D98CE]	
Name: X Function: XBEE WI-FI Port: COM38 - 9600/8/N/1/N - AT MAC: 000000409050598CE	Change MAC/PHY Settings	er
	AI Association Indication	٢
	DI Device Cloud Indicator	٢
	(i) CH Channel	٢
	LM Link Margin	٢
	PL Power Level Highest [4]	٢
	✓ Network Change Network Settings	
	AH Network type Infrastructure [2]	٢
	() CE Infrastructure Mode STA mode [2]	\$
	() ID SSID	۲
	(i) EE Encryption Enable No security [0]	٢
	PK Passphrase	٢
	(i) IP IP Protocol	٢
	MA IP Addressing Mode DHCP [0]	٢
	TM TCP Client Connection Timeout	۲

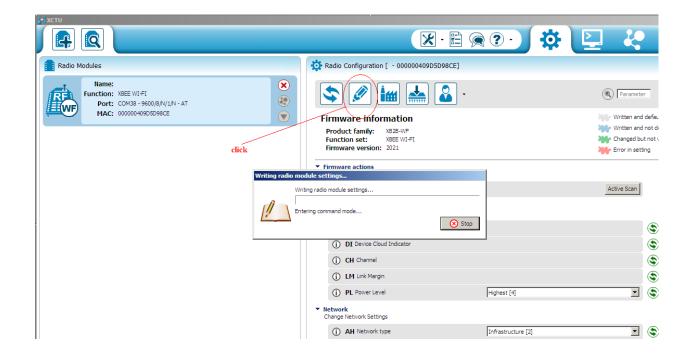


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Radio Modules	Radio Configuration [- 000000409D5D98CE]	
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MAC: 000000409D5D98CE	Change MAC/PHY Settings	
	AI Association Indication	\$
	DI Device Cloud Indicator	۲
	(j) CH Channel	٢
	LM Link Margin	٢
	PL Power Level Highest [4]	
	Network Change Network Settings	
	AH Network type Infrastructure [2]	
	CE Infrastructure Mode STA mode [2]	•
	10 SSID SSID	
	EE Encryption Enable No security [0]	<u> </u>
	PK Passphrase	<u> </u>
	IP IP Protocol UDP [0]	
	MA IP Addressing Mode DHCP [0]	

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Radio Modules	Radio Configuration [- 000000409D5D98CE]	
Name: Second Secon	Charge MAC/PHY Settings	Parameter
	AI Association Indication	٢
	DI Device Cloud Indicator	٢
	CH Channel	٢
	LM Link Margin	٢
	PL Power Level Highest [4]	
	Network Change Network Settings	
	AH Network type Infrastructure [2]	
	CE Infrastructure Mode STA mode [2]	
	() ID SSID RDL WIFI	I
	EE Encryption Enable No security [0]	_ (\$)
	PK Passphrase	
	IP IP Protocol UDP [0]	
	MA IP Addressing Mode DHCP [0]	
	-	-



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Radio Modules		Radio Configuration [- 000000409D5D98CE]]	
Name: Function: XBEE W1-F1 Port: COM38 - 9600/8/N/1/N - AT MAC: 00000049955598CE	× &	S 🖉 🕍 🚣 🚨	•	(Paramete
		(i) CH Channel	6	
		LM Link Margin	FF	
		PL Power Level	Highest [4]	•
		 Network Change Network Settings 		
		(i) AH Network type	Infrastructure [2]	
		CE Infrastructure Mode	Soft AP mode [1]	
		() ID SSID	RDL Wifi	
		() EE Encryption Enable	No security [0]	•
		PK Passphrase		
		() IP IP Protocol	TCP [1]	•
		() MA IP Addressing Mode	UDP [0] TCP [1]	
		() TM TCP Client Connection Timeout	64	* 100 ms
		() TS TCP Server Connection Timeout	258	* 100 ms
		(i) DO Device Options	3	





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Radio Modules		Radio Configuration [- 000000409D5D98CE]			
Name: Function: XBEE WI-FI Port: COM38 - 9600/8/N/1/N - AT	× &	S 🖉 🕍 📥 🔹 -		(Parameter	
MAC: 000000409D5D98CE		Firmware information		Written and de	
		Product family: XB2B-WF Function set: XBEE WI-FI		Written and no Changed but n	
		Firmware version: 2021		Herror in setting	
	click	Firmware actions			
	Reading radio m				
	Re	ading radio module settings		Active Scan	
		ading AT parameter: AH			
		Stop			~
			1		٢
		DI Device Cloud Indicator			٢
		(i) CH Channel		(٢
		() LM Link Margin		(٢
		() PL Power Level	Highest [4]		٢
		 Network Change Network Settings 			
		AH Network type	Infrastructure [2]		\$

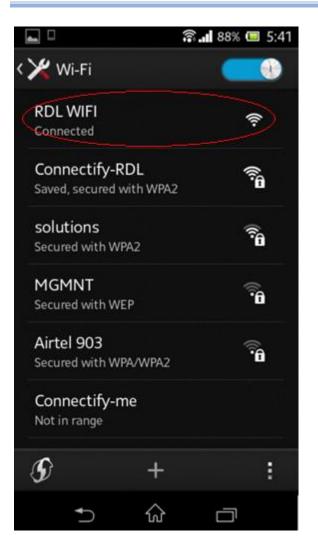
at XCTU		
📔 Radio Modules	- 000000409D5D98CE	
Name: Function: XBEE WI-FI Image: State WI-FI	S	click Click AT Console Status: Disconnected Rx Bytes: Tx Bytes: Rx Bytes:
MAC: 000000409D5D98CE	Console log	۵ (۲)
	×	
	Send packets	Send a single packet
	Name Data	Send selected p
		Send sequence
		Transmit interval (ms): 500 Repeat times 1 Loop infinitely



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Radio Modules	- 000000409D5D98CE	
Name: Function: XBEE WI.FI Port: COM38 - 9600/8/N/1/N - AT		T Console Status: Connected
MAC: 000000409D5D98CE	Consote log	(ex)
click		
	Send packets	Send a single packet
	Name Data	ern
		Send sequence
		Transmit interval (ms):

In order to make sure the Soft AP mode working on the Xbee WiFi module. First, I search the WiFi with "RDL WIFI" SSID using my Android phone, and connect to it.





Click on connect