

# IOT TOOLBOX

## Create an IoT chain quickly and easily



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QUICK START GUIDE Version 1.1.1



## Table of contents

1.	INFORMATIONS	3
2.	4G Gateway Installation	4
3.	ETHERNET Gateway Installation	5
3.1.	Cables connexion	5
3.2.	Computer Network Settings	6
3.3.	Gateway Network Settings	8





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### **1. INFORMATIONS**

Y To know what is your IoT Toolbox version, check the sticker on the side of the box, like display below:



#### **Ethernet Toolbox version composition:**

- 1 Multitech gateway
- 1 Antenna LoRa 868MHz (White)
- 1 Power suppy adaptor
- 1 Ethernet cable (2m)
- 1 USB cable
- 3 Adeunis IoT devices



#### 4G Toolbox version composition:

- 1 Multitech gateway
- 1 Antenna LoRa 868MHz (White)
- 1 Antenna GSM 4G (Black) + 1 spare
- 1 Power suppy adaptor
- 1 Ethernet cable (2m)
- 1 USB cable

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3 Adeunis IoT devices





Your lot Toolbox is already fully set to retrieve data from Adeunis IoT devices. However, to send this data to an application server in order to monitor them from anywhere, the Toolbox needs to be connected on an Internet Network. Depending of your type of IoT Toolbox, you may need to connect the gateway to your company network.

If you have an Ethernet IoT Toolbox version, Jump directly to the page 5.



#### 2.4G GATEWAY INSTALLATION

4)

- 1) Connect the white antenna LoRa on the « RF » connector of the Multitech gateway.
- 2) Connect the black antenna GSM on the « CELL » connector of the Multitech gateway.
- 3) Connect the power supply adaptor on the Multitech gateway.
  - Supply the gateway by connecting the other extremity of the adaptor to an outlet.



Your 4G IoT Toolbox is now ready, you can proceed to the activation of adeunis® devices and monitor your data on your WebApp.

NOTE: Do not continue reading the document if you have a 4G IOT TOOLBOX version.



#### **3. ETHERNET GATEWAY INSTALLATION**

#### 3.1. Cables connexion

- 1) Connect the white antenna LoRa on the « RF » connector of the Multitech gateway.
- 2) Connect the Ethernet cable on « E-NET » port of the Multitech gateway.
- 3) Connect the power supply adaptor on the Multitech gateway.
- 4) Supply the gateway by connecting the other extremity of the adaptor to an outlet.



5) Connect the other extremity of the Ethernet cable to your PC.





#### 3.2. Computer Network Settings

1) On your computer, click on:

« Start Menu > Control Panel > Network and Sharing Center ».

(For Windows 8 and higher, search for and open Control Panel and select Network And Internet).

#### Click « Change adapter settings ».

Control Panel Home       View your basic network information and set up connections         Change adapter settings       Image: Change advanced sharing settings         Change advanced sharing settings       USERCBU12-PC (This computer)         View your active networks       Connect or discord connections         Image: NETGEAR50-5G Public network       Access type: Internet Connections: Image: Local Area Connection 2         Change your networking settings       Change your networking settings	Control Panel Home       View your basic network information and set up connections         Change adapter settings       Image: Change advanced sharing settings         Change advanced sharing settings       Image: Change advanced sharing settings         USERCBU12-PC (This computer)       Image: Change advanced sharing settings         View your active networks       Connect or discontered advanced of the set					6			
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	Windows Firewall	Windows Firewall							

3) Right-click on « Local Area Connection » and click on « Properties ».



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2)



4) Select « Internet Protocol Version 4 » (TCP/IPv4) and click on « Properties ».

Local Area Connection 2 Properties	X							
Networking Sharing								
Connect using:								
Intel(R) PRO/100 VE Network Connection								
Configure								
This connection uses the following items:								
🗹 📙 QoS Packet Scheduler								
🗹 📮 File and Printer Sharing for Microsoft Networks								
General NDIS Protocol Driver								
Internet Protocol Version 6 (TCP/IPv6)	=							
Internet Protocol Version 4 (TCP/IPv4)	-							
Link-Layer Topology Discovery Mapper I/O Driver								
Link-Layer Topology Discovery Responder	-							
✓ III	•							
Install Uninstall Properties	;							
Description								
Transmission Control Protocol/Internet Protocol. The default								
wide area network protocol that provides communication								
across diverse interconnected networks.								
ОК Са	incel							

5) Select « Use the following IP address » and enter the IP address 192.168.2.3 and the Subnet Mask 255.255.255.0. Then click **OK** and close the Local Area Connection properties window.

You can get IP settings assigne this capability. Otherwise, you	d automatically if your network supports need to ask your network administrator
for the appropriate IP settings.	
Obtain an IP address auto	matically
Use the following IP addre	ISS:
<u>I</u> P address:	192.168.2.3
S <u>u</u> bnet mask:	255.255.255.0
Default gateway:	
Obtain DNS server addres	s automatically
O Use the following DNS service	ver addresses:
Preferred DNS server:	
<u>A</u> lternate DNS server:	
🔲 Validate settings upon ex	it Ad <u>v</u> anced



#### **Gateway Network Settings** 3.3.

You are now able to communicate with the Gateway. It is necessary to connect your gateway to your company network in order to have a link between the LoRa Network and Internet. To do so, you need to ask to your network administrator an IP address, the network mask and the company gateway that you will address to the Multitech gateway.

- 1) Open your internet browser and type the address **192.168.2.1**.

2)

3)

Log in with the login « admin » and the password « admin ».

Click on « Setup » and then « Network interfaces ».

lome	Network	< Interfaces (	Configuratio	on 🔋			Reset To Default	
Save and Restart	Name	Direction	Туре	IP Mode	IP Address	Bridge	Options	
Getup	eth0	LAN	ETHER	Static	192.168.2.1/24		2	CLICK
Network Interfaces	br0	LAN	BRIDGE			br0	1	
WAN								
DHCP								
LoRa								
Time								
ïrewall								
dministration								
tatus & Logs								
ommands								
pps								

4) Click on the pencil at the right of the page to edit the **interface eth0**.

#### 5) Define your Network Interface as described by your **network administrator**.

Network Interface	Configuration -	eth0	×	
Direction	LAN	)•		Do not change without to contact Adeunis Support
Bridge		)0		
Mode	Static	•		
IP Address	192.168.2.1	)		Needs to be defined by your network administrator
Mask	255.255.255.0	)。		
Gateway		)0		
Primary DNS Server		) •		– Optional
Secondary DNS Server		0		
		0	Finish	Dage 9 of



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MultiConnect® Conduit ×							Θ	- 0	×
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MULTITECH	MultiCon MTCDT-210A	nect® Condu Firmware 1.4.1	iit - Applica	ition Execut	on Platform	Logged In: Search:	admin Logout		
	🔮 Interfa	ce successfully (	updated						
Home	Network	k Interfaces (	Configuratio	on 김			Reset To Default		
Save and Restart	Name	Direction	Туре	IP Mode	IP Address	Bridge	Options		
Setup	eth0	LAN	ETHER	Static	192.168.2.1/24		1		
Network Interfaces	br0	LAN	BRIDGE			br0	1		
WAN DDNS									

6) Click on « **Save and Restart** » to save the new network interface settings.

The Multitech Gateway is now rebooting and ready to be connected on the network of the company.

MultiConnect® Conduit ×			Θ	-	٥	×
← → C û ▲ Non sécurisé   https://192.168.2.1/res	tart.html				4	
MULTITECH	MultiConnect® Conduit - Application Execution Platform	Logged In: admin Search:	Logout			
Home	\$1/e					
Save and Restart	Rebooting Device					
Setup						
Firewall						
Administration						
Status & Logs						
Commands						
Apps						
Help						
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7) Once the gateway is rebooted, disconnect the Ethernet cable of gateway backpanel (E-NET) and connect the network cable of your company.

Your Ethernet IoT Toolbox is now ready, you can proceed to the activation of Adeunis devices and monitor your data on your WebApp.

Note : In case of difficulty during the start-up, don't ever press the « Reset » swith of the gateway. You would lose all the settings of this one.