

# New Era of IoT: Wireless RS485



Oncoming IoT era has brought a huge change: traditional devices will be substituted by smart devices. There are more and more industries, companies and people involving in IoT development which means every sensors, controllers, and living devices can be connected altogether in a brand-new way and realize smart remote control on private items.

However, the change might cause problems for plenty of people: there are lots of traditional devices in most of families, clearly to say more than half and if people plan to catch up with IoT trend and enjoy smart control which means that traditional devices must be replaced. Complete alteration will take you one, two or hundreds of devices to be replaced and bring you worries on time, money and manpower.



### **ZL01B**

ZL01B, the most efficient low-cost smart device, assists to reduce a series of smartcontrol-to-RS485 problems.



## ZL01B Removes Problems, Leading to IoT Era

How to solve RS485-to-wireless-device problem?

To start with, traditional devices/equipments must have RS485 interface to connect with Netvox ZL01B through Netvox Gateway Z206 which can realize wireless connection and integrate traditional devices/equipments to wireless network system.

Then, installer need to follow the protocol of traditional devices/equipments and enter Netvox platform to compile and write relevant 485 commends in model editor page.

Specific steps:

1., Create a new home, add a Z206 gateway and ZL01B device in Device Management on model editor page. In Device Management, select the "Device List", there will be a setting button next to ZL01B. Please refer to photo below.



2.Click setting button, page of customize 485 will pop out and you can name "name of action" and "command number". Click save after any revision. Note only that letter of 0 to 9 and A to F are allowed and the total character must be even number. For example, first action 485-start the name of is and command number is AA12BB13CC14FF114477DDEE; the second name of action is 485-run and command number is AABBCCDD11223344. Please refer to photo below.

		🗉 Select new de	vices				
		« Home	Livingroom				
	Custom 485 ser	ial command			7	×	
Top 2	Can add the 485	5 serial port for third party	equipment directive act	ion, can add after linkag	le	ire .	Lightsensor
	Please fill out th difference) :	odei. e action name and instruct	ion code (action name	automatically add '485'	for		Security device
	Action name:	For example:485 - boo	Instruction code:	For example:485 - boo	+		Others
"Netvox"Device	Action name:	485-Start	Instruction code:	AA12BB13CC14FF114	-		
The total area:2 The total amount	Action name:	485-Run	Instruction code:	AABBCCDD11223344	-	to the class	sification above and
Area Devices List	Action name:	485-Repeat	Instruction code:	1A2B3C4D5E6F	-		
PLS go to farea devices listito r							List Gallery
		_	網定				Add
Home A Z206 CWSHC1	0						
ZL01B IEEE 802 15.4/RS485 Ada	ote 19 0						

3. In Mode Management, there are name of customized mode, application range of mode and description of mode. After selecting "add action", it will show the deployed 485 serial command action and you can choose one of the relevant action types. For instant, choose "485-start"action type and select ZL01B and then click save. Please refer to the photo below.

Method	Device	Mode   Correlation   Confirm   Log out
"Netvox"Mode	P INT	Mode editing     Mode name(485 Start     Mode description(485 Start     Enable the detection of electrical equipment     The Enable the detection is to detect whether they are in a status in accordance with your operation!
485 Start 485 Run 485 Repeat Livingroom ▲	0 × 0 × 0 ×	Conception of modelmacro Conception of modelmacro Conception of modelmacro Conception Conc
		Z1.01B IEEE 802.15.4/ Delay:0.S Action:485-Start Ø X   Add action Multiple actions setting Advanced

ome 🔺							
85 Start	Ø ×						
85 Run	0 ×				The explain of modelin	11610	
85 Repeat	0 ×		Eg	when user comes back hi	ame , click on the home of "t	ack home'	on the mobile clent. All
		lig	hts o	f the living room will be I	urned on , all socket of the k	itchen will	be opened , the curtain
ivingroom 🔺	Single	ction setting				~	
					BILLEY BILLE	-	ins a set of status for a
	1 This setting	g is for one individua	al act	ion of the device,eg. Turn	on "the living room lights"		
		105 64-4	-				774
	Action type:	485-Start	-	Action delay:0	B		which means a paton of
	Home	ArmDayZone					nsist of the unified actions
	Q ZL01B IEE	ArmNightZone CIEBypassZone		r1			
		CIEUnBypassZone					action of one device.
		ApplyDeviceIR Doorbellon					
		DoorbellOff					
		WarnAndSendSMS MoveToColor					
		N485ACTION					
		MoveToLevel 0%	=				3
		MoveToLevel 40%					
		MoveToLevel 60%		ok			
		MoveToLevel 100%		UK			ed Delete
		485-Start 485-Rup			an watar assault	12	<i>a w</i>
		485-Repeat	-	EEE 802.15 Delay:	0 S Action:485-Start		~ ×
				_			
		A		ction Multiple a	ctions setting		

At last, after finish of editor mode and download to Z206 Gateway, you can download Netvox APP and log into directly. Clicking the below "Control" function menu bar, you will see the deployed ZL01B 485 serial port command in different sections. You may set up which traditional RS485 devices should be connected to the action in the APP. Like, when you execute 485-start mode, the connected port from ZL01B 485 serial port will send relevant port command "AA12BB13CC14FF114477DDEE".



Netvox ZL01B enables your traditional devices to be connected with smart devices into IoT system and brings you whole new chapter of IoT Smart life.



### **New Applications in Plenty Fields**

Netvox ZL01B enables to turn traditional RS485 devices into smart devices which rule out the original weak point at non-connected, non-controllable smart devices. Users can control new devices of traditional RS485 devices smartly via smart phone.

It can also apply for houses, schools, malls, offices, hotels, agriculture, and industries...enormous fields. It can be connected to stereo system, HVAC system or television equipment. You can choose suitable scenes which meet your real need to create various 485 control commands. Netvox is here to take you to IoT Smart life.

## Netvox Technology Co., Ltd.

No. 21-1, Sec. 1, Zhong Hua West Rd., Tainan, Taiwan TEL: +886-6-2617641 FAX: +886-6-2656120 www.netvox.com.tw

Wechat:



LoRa

zigbee alliance member

Netvox Smart Butler

Netvox Smart Life