

ZigBee[™]- Integrated Wireless Smart Home Controller

User Manual

Integrated Wireless Smart Home Controller Model: Z207

20151124 For firmware V0.0.0.25 and later

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Model: Z207

1. Introduction

Netvox Z207 is a Cloud-Based Wireless Smart Home (CWSH) Controller. It is equipped with ZigBee, and Cloud technology. As the main character of Netvox Smart Home Cloud Platform, Z207 provides Cloud services and ZigBee network communication. Users are able to control the ZigBee network devices through Z207 with mobile App. Netvox Smart Home Cloud service allows users to remotely control home devices anytime and anywhere to achieve low power consumption and environmental protection. Widely used for home and commercial purpose.

2. Product Appearance



3. Specification

- · Comply with ZigBee ProTM Agreement; base on ZigBee HA profile
- Support Netvox Cloud system
- Support up to 20 Zigbee devices
- 2.4GHz ISM band transceiver, total 16 channels
- Up to 210 meters wireless distance
- Easy installation and configuration

4. Installation and Preparation

4-1. Port introduction



4-2. Power on Z207 and connection diagram

Power on Z207 with DC 5V / 0.5A power adapter (Micro USB Port). The power indicator light stays on.



4-3. Reset Z207

To reset Z207, press Reset Button when Z207 is powered on.

4-4. Indicators

- A. Power Indicator: Light on: power-on. Light off :power-off.
- B. Cloud Indicator: Light flash: connection fail Light on: connection complete

5. Set up Z207

5-1. Set up

Connect the router to the LAN port of Netvox Z207 with a web line.

5-2. Search Z207 IP

Login router settings interface with browser. Connect the computer to router with either cable or WIFI. Login setup interface (login and password method, please refer to manual). Find the corresponding IP for Z207 MAC.

NETGEA SMARTW	R IZARD	o RangeMax [™] Wireless Re	MII auter model WPN824	NO () 6H2 = 642.11g	
Setup Wizard Setup	Attache	d Devices			Attached Devices Help This page shows the IP Address, Device Name and MAC (Media
Basic Settings	#	IP Address	Device Name	MAC Address	Access Control) Address for each computer attached to the router.
Wireless Settings	1	10.0.0.2		00:13:7a:00:0d:3b	You cannot change any of the values on this page. To update this
Content Eiltering	2	10.0.0.3	ENGER2	00:21:85:73:aa:c2	page and to show the current attached devices, click on the Refresh
coment i mering	3	10.0.0.4	-	c4:d6:55:34:72:87	button.
Block Sites Block Services Schedule E-mail Naintenance Router Status Attached Devices Backup Settings Set Password Poutra Il Verseche	e -		Refresh		

5-3. Log in the management system

Open the web browser and enter Z207 IP address (Step. 5.2) to login page.



Click enter. The login interface as below:

	Language: Select Languag
netvox	
Member Login	
<u> </u>	
password	
Remember me	
LOGIN	

Key in the Username & Password (default for customer: admin / admin ; for user: operator / operator) and login the management system including status, internet setting, administration and home automation.

5-4. View Z207 Status

Click Status to view the system and web data as below page.

netvox			Beboot	logout	Reconnect
Status	System			_	
Internet Setting.	Uptime	0day:0h:4m:51s			
LAN Interface	Firmware Version:	0.0.0.21			
	Build Time	Thu Jul 30 16:24:29 CST 2015			
WAN Interface	LAN Configuration				
	Attain IP Protocol	Fixed IP			
Statistics	IP Address:	192.168.1.131			
	- Subnet Mask	255.255.255.0			
Time Zone Setting	Default Gateway	192.168.1.254			
Denial-of-Service	DHCP Server	Auto			
System Log	MAC Address				
and the second states of the					

5-5. Internet setting

Click **Internet Settings** to the page used to configure the parameters for local area network which connects to the LAN / WAN ports of your access point. Here you may change the setting for IP address, subnet mask, DHCP, etc..



(A) LAN Settings

This page is used to configure the parameters for local area network which connects to the LAN port of your access point. Here you may change the setting for IP address, subnet mask, DHCP, etc..

Access Point. Here you may a	hange the setting for IP addresss, subnet mask, DHCP, etc	, your
IP Address:	192.168.15.1	
Subnet Mask:	255.255.255.0	
Default Gateway:	0.0.0.0	
DHCP:		
DHCP Client Range:	192.168.15.10(- 192.168.15.20(Show Client	
DHCP Lease Time:	480 (1 ~ 10080 minutes)	
Static DHCP:	Set Static DHCP	
Domain Name:	netvox	
802.1d Spanning Tree:	Enabled 💌	
Clone MAC Address:	00000000000	

(B) WAN Settings

This page is used to configure the parameters for local area network which connects to the WAN port of your access point. Here you may change the setting for IP address, subnet mask, DHCP, etc..

WAN Interface Setup	
This page is used to configur Access Point. Here you may item value of WAN Access ty	the parameters for Internet network which connects to the WAN port of your hange the access method to static IP, DHCP, PPPoE, PPTP or L2TP by click the e.
WAN Access Type:	DHCP Client
Host Name:	
MTU Size:	1492 (1400-1500 bytes)
Attain DNS Automatically	
Set DNS Manually	
DNS 1:	
DNS 2:	
DNS 3:	
Clone MAC Address:	0000000000
Enable uPNP	
Enable IGMP Proxy	
Enable Ping Access on V	IAN
Enable Web Server Acc	ss on WAN
Enable IPsec pass through the second seco	gh on VPN connection
Enable PPTP pass throu	h on VPN connection
Enable L2TP pass throu	h on VPN connection
Enable IPv6 pass through	h on VPN connection
Apply Changes Reset	

5-6. Administration

Click administration to advance set up including statistics, time zone setting, denial-of-service, system log, upgrade firmware, save/load setting, password.



(A) Statistic

This page shows the packet counter for transmission and reception regarding to wireless and Ethernet.

This page shows the packet networks.	counters for transmission and reception re	garding to wireless and Ethernet
	Sent Packets	0
Ethernet LAN	Received Packet	0

(B) Time zone setting

Users can maintain the system by synchronizing with a public time server over the internet.

Time Zone Setting You can maintain the sy	stem time by synchronizing with a public time server over the Internet.	
Current Time :	Yr 2015 Mon 8 Day 19 Hr 13 Mn 15 Sec 20	
	Copy Computer Time	
Time Zone Select :	(GMT+08:00)Beijing, Chongqing, Hong Kong, Urumqi	
Automatically Adju	st Daylight Saving	
Enable NTP client u	pdate	
NTP server :	© 131.188.3.220 - Europe	
	I28.138.141.172 (Manual IP Setting) (Manual IP Setting)	
Apply Change Rese	Refresh	

(C) Denial-of-service

A "denial-of-service" (DoS) attack is characterized by an explicit attempt by hackers to prevent legitimate users of a service from using the service.

Enable DoS Prevention		
Whole System Flood: SYN	0	Packets/Second
Whole System Flood: FIN	0	Packets/Second
Whole System Flood: UDP	0	Packets/Second
Whole System Flood: ICMP	0	Packets/Second
Per-Source IP Flood: SYN	0	Packets/Second
Per-Source IP Flood: FIN	0	Packets/Second
Per-Source IP Flood: UDP	0	Packets/Second
Per-Source IP Flood: ICMP	0	Packets/Second
TCP/UDP PortScan	Low	 Sensitivity
ICMP Smurf		
IP Land		
IP Spoof		
IP TearDrop		
PingOfDeath		
TCP Scan		
TCP SynWithData		
UDP Bomb		
UDP EchoChargen		
Select ALL Clear ALL		
Enable Source ID Blocking	0	Block time (sec)

(D) System Log

This page can be used to set remote log server and show the system log.

system all	wireless	DoS	
	Log Server IP Address.		
ppi, changes			

(E) Upgrade Firmware

This page allows you upgrade the access point firmware to new version. Please note, do not power off the device during the upgrade because it may crash the system.

Upgrade Firmware	
This page allows you upgrade the Acc device during the upload because it m	ess Point firmware to new version. Please note, do not power off the ay crash the system.
Firmware Version:	0.0.0.21
Upload Reset	《劉見…」不进译個杀。

(F) Save/Reload Setting

This page allows you save current settings to a file or reload the settings from the file which was saved previously. Besides, you could reset the current configuration to factory default.

Save/Reload Settings			
This page allows you save current se previously. Besides, you could reset	ettings to a file o the current conf	r reload the settings fi	rom the file which was saved fault.
Save Settings to File:	Save		
Load Settings from File:	瀏覽	〕未選擇檔案。	Upload

(G) System Management

Users can set new username & Password for login page.

System Man	agement			
User permissio	on setting			
Account				
Password				
Apply	Cancel			
Administrator	permission settin	ng		
Account				
Password				
Apply	Cancel			

6. Set up Zigbee smart home

Open the web browser and enter Z207 IP address (Step. 5.2) to login page. Click Smart Home to the smart home page. Key in the Username & Password (for advanced settings, please use operator/ operator) and login the management system.



6-1. Device List

The device data such as IEEE address, data code, and device details. For the first-time use, please power on / wake up all of the devices, and then refresh the list and check all device names are listed.

efresh						
łum	Device Name	Device IEEE Address	Data	Code	Device Details	Delete
1	Z103A	001374	2015	50306	Detail	Delete
Device efresh	e Node List					
Device efresh um	e Node List Device Name	Device IEEE Address	End Point	Data Code	Device Details	Delete

6-2. Device Management

To turn on Permit-Join feature, to add devices, and to manage IP camera.

(A) Permit-Join

To add new devices to the network, we need to turn the Permit-Join feature on. After turning on Permit-Join, power on the devices users would like to add into the network. Operation tip as listed below:

Device Management			
Permit Join On			
Permit-join time:	S	(max=255)	Permit Join On
Operation tip: Reset devices to facto	ory default and power off, th	ien set permit-jion	duration and click on the "Permit Join
ON" button. Power on the devices. Whe	n the period is set to 255s, i	it means the status	s of permit-join is permanent on. Please
click on "Permit Join Off" when the proc	ess of adding devices comp	pleted.	

(B) Add Devices

Users could also add the devices manually using device's IEEE number. Operation tip as listed below:

EEE addr:		(max=	50s)	Add Device	
-----------	--	-------	------	------------	--

(C) IP Camera List

To manage the IP camera automatically and manually.

(I) Select automatic:

ind a cam	era: Automatic	-		
lease sele	ct the camera mode	All devices	•	
he curren	t number of online v	veb camera for1The map	oping list as follows:	
he curren Name	t number of online v Room Name	veb camera for1The map MAC Address	pping list as follows: IP Address	WAN Address
The curren	t number of online v Room Name ⇔⇔⋿	web camera for1The map	pping list as follows: IP Address	WAN Address The current did not connect to the

(II) Select manual:

ind a can	nera: Manual	-		
	L			
	IP Address:		pc	ort:
	user name:		pass	word:
	model: C3103W		ui	d:
				add
he currer	nt number of online	web camera for1The ma	pping list as follows:	
		MAC Address	IP Address	WAN Address
Name	Room Name			

6-3. Initiate Smart Home

Select Zigbee network channel to be used.

Zigbee Channel			
Current (Channel:		26
′ Switch ZigBee network ch	annel		
		Manual oper	ation
	Swite	ch ZigBee networ	k channel:
	11	-	ок
Notes			
A. To switch the channel one and activate ED devices.	before forming a n	etwork, click to s	witch the channel and power on router devices one by
B. To switch the channel to receive commands. ED dev	when the network is ices shall be activate	s already formed ed after the oper	, make sure all router devices are powered on to be abl ation of switching the channel.
C. If there are any devic	es with their channe	l not switched su	ccessfully, you need to set them to factory default and

For the first time, after the network is completed, users need to initialize the smart home system. Select the device to be initialized, click [Initialize smart home] button to initialize the smart home system. Users are able to check the completeness of the network. It will list the problem of the network if there is any as shown in below:

Please select devices to be	Initia	alize Smart Home
peration tip: Click to initialize the configurati	ion of the network. Do not use it unless	needed.
Grou	p and scene created successfully.	
Check the completeness		
Check the completeness:	Check	the completeness
Time of	last checking:2015-07-15 20:46:18	
Devic	e not joined to the network	
Device Name	IEEE Attr.	End Point
	00137A00	
Notes: Reset devices not joined to the n ning the network again	etwork to factory default and ther	n execute the operation o

6-4. User management

Click **User Management** on the left of the page as below. In this page, users can add and generate new verification code . Click once to generate a verification code, the status updated in the list.

Management			
User Name	Status	reset password	Delete
shcadmin	Normal Lock	Reset	Delete
ication Code			
Serial Number	Verification Cod	de	Status
1	540615		used
2	585424		unused
3	831172		unused
4	239628		unused
5	865986		unused
6	421699		unused
7	412415		unused
8	567874		unused

Click User Management [Add] button, following page as below, enter a user name, password, password confirmation and verification code and click submit to add new users.

User Name	Please input the user name	(Please input 4-16 letters or numbers)
password	1	(Please input 6-16 letters or numbers)
onfirm Password		(It shall be the same as input password)
/erification Code	One verification code can b	Get verification code

The status of corresponding user name can be set (normal / lock), a password can be reset (enter new password again to reset password).

ck		
User Name	shcadmin	
New Password		(Please input 6-16 letters or numbers)
Confirm Password		(It shall be the same as input password)
	reset password Cancel	

6-5. Upgrade Firmware

Click on the left of the page to **Upgrade Firmware**. Click [Browse] button , select a upgrade file, then click [upgrade] button.

ade Firmware		
瀏覽 未調	2澤檔案。	upgrade

6-6. Data Management (backup, restore, or delete setting)

Click on the left side of data management as interface in below. Users can choose to back up, restore, delete data to local or cloud systems, according to the backup date. (NOTE: cloud is suggested because there's limited memory space in the device when saving data to local. Too much data in local might cause factional fail for device.)

Backup data to the Z207:	OK	
Backup data to cloud:	Mark it as the last effective backup OK	
Conduct the operation of rebuilding network	Restore	
Please select backup date Conduct the operation of rebuilding network	Restore	

6-7. Import Data

Click on data import. Click [Browse] button, select to import "intelligent mode-controlling scheme "file, press [Update] button to update the smart scene control program

nport mode-controlling schem	e	
odate the compressed package	ge for mode-controlling scheme and devic	e information -
]覽]未選擇檔案。		Upgrade

6-8. Communication Setting

To manage security key or Cloud link.

mend secret key	
Secure Communication	ОК
Cloud Link cloud state span	connected

7. Switch Z207 to Z202 Gateway mode

1. Login to Z207 web page, select communication setting → amend secret key → un-tick secure communication → Click "OK" :

communication octaing	
amend secret key	
Secure Communication	ок
Cloud Link	
cloud state span	connected

2.Open a new Web page, enter below cgi configuration to switch Z207 into Z202 mode.

(Note: IP address is your real Z207 IP)

http://192.168.11.103/cgi-bin/rest/network/SystemConfigure.cgi?opt=101&value=1&callback=1234&encodemethod= NONE&sign=AAA

Reboot Web page and restart Z207 to switch into Z202 Gateway mode.

📀 🕙 192. 168. 11. 103/cgi-bin/rest/network/SystemConfigure. cgi?opt=101&value=1&callback=1234&er 🦁 🧱 🔻 🏾 C	Q、百度 《Ctrl+K>
😰 最常访问 🦲 OpenSSL 🦲 makefile 🦲 netvoxcwsh 🦲 ONvif 🦲 MQTT相关 🦲 CURL 🦲 MQTT 🦳 SSL Socket相关 🦲 js	on 🚀 MD5在线加密 - MD5加…
1234 ({ "request_id": "1234", "response_params": { "status": 0, "status_msg": "succes	s", "value": 1

3. Users can switch Z202 Gateway mode back to Z207 mode through below cgi configuration.

(Note: IP address is your real Z207 IP)

http://192.168.11.103/cgi-bin/rest/network/SystemConfigure.cgi?opt=101&value=0&callback=1234&encodemethod=NONE&sign=AAA

Reboot Web page and restart Z207 to switch back to Z207 mode.

8. Important Maintenance Instructions

- This device is NOT truly waterproof/ resistant and is for indoor use.
- Please keep the device in a dry place. Precipitation, humidity, and all types of liquids or moisture can contain minerals that corrode electronic circuits. In cases of accidental liquid spills to a device, please leave the device dry properly before storing or using.
- Do not use or store the device in dusty or dirty areas.
- Do not use or store the device in extremely hot temperatures. High temperatures may damage the device or battery.
- Do not use or store the device in extremely cold temperatures. When the device warms to its normal temperature, moisture can form inside the device and damage the device or battery.
- Do not drop, knock, or shake the device. Rough handling would break it.
- Do not use strong chemicals or washing to clean the device.
- Do not paint the device. Paint would cause improper operation.

Handle your device, battery, and accessories with care. The suggestions above help you keep your device operational. For damaged device, please contact the authorized service center in your area.