

# **USER MANUAL**



CG102BS ZigBee Base Station

VERSION 1.0

9 MAY 2013



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# **1** Introduction

The current document provides you with the information of installation and configuration information of the CG102BS.

# 2 Getting Started



- 1. Status LED
- 2. Reset Button
- 3. DC Socket
- 4. SD Card (CANNOT REMOVE)
- 5. Ethernet RJ-45 port
- 6. Connection port to computer

# **3 Power-up the CG102BS**

- Connect the local LAN from your WiFi router to the CG102BS.
- Insert the DC Plug to the DC socket of the CG102BS.
- Plug the transformer to the AC220V socket.



### **4 Device List Upload**

The list of your Citygrow Home Automation devices should be uploaded to the CG102BS before the CG102BS can be operating with your home system. Details of uploading the device list to the CG102BS, please refer to the user manual of the HomeNET Planner Software. You can download HomeNET Planner Software from www.citygrowsys.com.

# **5 Device Control**

Please download the HomeNET App for your mobile device:

- iPad/iPhone
  - https://itunes.apple.com/us/artist/citygrow-energy-systemsltd/id490603381
- O Android
  - https://play.google.com/store/apps/developer?id=Citygrow+Energy+S ystems+Ltd.

After download the HomeNET App, run the App and the CG102BS will be automatically found by your HomeNET App.

You can perform the device control according to the HomeNET App instructions.

## 6 Remote Access

You are able to access your Citygrow Home Automation through the Internet remotely by using the HomeNET App in your mobile device. The minimum requirements for the remote access of the system are:

- 1. Your Internet Service Provider (ISP) should provide a real IP address to your router. (Details please contact your ISP)
- 2. Your WiFi router should support "Port Forwarding" function. (Details please refer to your WiFi router user manual)
- 3. Your WiFi router should support Dynamic DNS (DDNS) client function. (Details please refer to your WiFi router user manual)

Following are the general procedures to enable the remote access of your home automation system:

- 1. Apply a DDNS service if you do not have. *Please refer to your router user manual to find the DDNS service provider, which your router is able to support.*
- 2. Configure the account information of your DDNS service to your router and enable the service. *Please refer to your router user manual for the configuration.*
- 3. Reserve a fixed IP Address on your router for the CG102BS. Please refer to your router user manual for the address reservation.
- 4. Forward the incoming port to the IP address of your CG102BS in your router. (External Port: 10004, Internal Port: 10004) *Please refer to your router user manual for the Port Forwarding.*
- 5. Enable the Internet Access option in your HomeNET App and configure the domain name (from your DDNS provider) to the HomeNET App.

### 6.1 Configuration Example (Linksys Router)

This section shows the example of the remote access configuration with the Linksys router (Model No.: WRT120N).

#### 6.1.1 Apply DDNS

The WRT120N Linksys router supports DynDNS.org and TZO.com DDNS service, details of the DDNS service please contact the Linksys router manufacturer.

	oy Cisco	)					FI	irmware Ve	ersion: v1.0.04
						Wireless-N	Home	Router	WRT120N
Setup	Setup	Wireless	Security	Access I	Restrictions	Applications & Gaming	Admi	inistration	Status
	Basi	c Setup		DDNS	M/	AC Address Clone		Advance	d Routing
DDNS DDNS Service	Disable Disable DynDNS TZO.con	d ▼ d s.org n					Helf	)	
			Save Setti	ngs	Cancel (	Changes			iliiilii cisco

#### 6.1.2 Configure DDNS to router

After you have applied the DDNS service, your will get the account information which including username, password, host name, etc. Please enter the account information to the DDNS configuration web page of your router to enable the DDNS service.

	y Cisco			Firmware Version: v1.0.04
0 stars			Wireless-N	Home Router WRT120N
Setup	Setup Wireless	s Security Access	Restrictions Applications & Gaming	Administration Status
	Basic Setup	DDNS	MAC Address Clone	Advanced Routing
DDNS				
DDNS Service	DynDNS.org ▼			Help
	Username: Password: Host Name:: System: Mail Exchange (Optional): Backup MX: Wildcard: Internet IP Address: Status: Update	Dynamic ▼ Dynamic ▼ Enabled ● Disable Disable ● Disable 0.0.0.0 No Internet connection.	  d d	
		Save Settings	Cancel Changes	uluih cisco.

### 6.1.3 Reserve fixed IP Address for CG102BS

Power-up the CG102BS according to the section 3 of current document, and then open the admin web page of the Linksys router. From the web page of the Linksys router, find the DHCP Reservation option.

LINKSYS <sup>®</sup> by Cisco					
	Wireless	N Home Router WRT120N			
Setup	Setup         Wireless         Security         Access Restrictions         Applications & Gaming           Basic Setup         DDNS         MAC Address Clone	Administration Status			
Language Select your language	English	Help			
Internet Setup Internet Connection Type	Automatic Configuration - DHCP				
Optional Settings (required by some Internet Service Providers)	Host Name: Domain Name: MTU: Auto T Size: 1500				
Network Setup Router IP	Local IP Address: 192 . 168 . 1 . 1 Subnet Mask: 255.255.255.0 ▼				
DHCP Server Setting	DHCP Server. <ul> <li>Enabled</li> <li>Disable</li> <li>DHCP Reservation</li> </ul> Start IP Address:       192       168       1       100         Maximum Number of Users:       50       100       100       100         IP Address Range:       192.168.1.100 to 149       140       140       100       100         Client Lease Time:       1440       minutes (0 means one day)       1410<				

In the DHCP Reservation page, enable the DHCP Reservation for the CG102BS and save the setting. You may find the IP address reserved for the CG102BS in this example is 192.168.1.101, and such IP address will be used in the next step "Port Forwarding".

LINKSYS	by Cisco				
DHCP Reservation					
Select Clients from DHCP Tables	Client Name	Interface	IP Address	MAC Address	Select
2	user-VAIO	LAN	192.168.1.100	54:42:49:A1:F3:59	
	CG102BS	LAN	192.168.1.101	70:8B:78:FF:FF:36	
					Add Clients
Manually Adding Client	Enter Client Nam	e Assig	n IP Address	To This MAC Addr	ess
		192.1	68.1.	00:00:00:00:00:0	0 Add
· · · · · · · · · · · · · · · · · · ·					
Clients Already Reserved					
Clients Already Reserved	ClientName	Assign IF	Address T	o This MAC Address	MAC Address

#### 6.1.4 Port Forwarding

Open the Port Forwarding configuration page of the Linksys router from "Applications & Gaming"  $\rightarrow$  "Single Port Forwarding". Add a new port forwarding configuration in the page, which the setting should be:

Application Name: HA External Port: 10004 Internal Port: 10004 Protocol: Both (TCP & UDP) To IP Address: 192.168.1.101 (Reserved IP address of the CG102BS) Enable: enabled

Then save the setting to the router.

LINKSYS <sup>®</sup> by Cisco							
Applications &					Wireles	s-N Home Router	WRT120N
Gaming	Setup Wi Single Port Forwar	reless Sec ding Port Rang	urity Ac ge Forwardii	cess Restrictions	Applications Gaming pering	& Administration	Status QoS
Single Port Forwarding							
Application Name	External Port	Internal Port	Protocol	To IP Address	Enabled	Help	
None 🔻				192.168.1.			
None <b>T</b>				192.168.1.			
None 🔻				192.168.1.			
None <b>T</b>				192.168.1.			
None V				192.168.1.			
HA	10004	10004	Both 🔻	192.168.1. 101			
			Both 🔻	192.168.1.			
			Both <b>v</b>	192.168.1.			
			Both <b>v</b>	192.168.1.			
			Both <b>v</b>	192.168.1.			
			Both 🔻	192.168.1.			
			Both <b>v</b>	192.168.1.			
			Both V	192.168.1.			
			Both <b>T</b>	192.168.1.			
			Both V	192.168.1.			

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### 6.2 Configuration Example (TP-Link Router)

This section shows the example of the remote access configuration with the TP-Link router (Model No.: TL-WR741ND).

#### 6.2.1 Apply DDNS

The TL-WR741ND TP-Link router supports No-IP, Dyndns and Comexe DDNS service, details of the DDNS service please contact the TP-Link router manufacturer.

TP-LINK		150M Wireless Life N Router Nodel No. TL-WR741N / TL-WR741ND
Status       Qatck Setup       QASS       Network       Wireless       DHCP       Forwarding       Security       Parental Control       Advanced Routing       Bandwidth Control       IP & MAC Binding       Dynamic DNS       System Tools	No-IP (www.no-ip.com)       Go.lozeoister         Dyndna (www.dyndna.org)       Comexe (www.comexe.cn)         Comexe (www.comexe.cn)       Dons         DDNS not launching!       Login         Login       Logout	DDNS Help DNS lets you assign a fixed host and domain name to a dynamic binnent if Pasters. It is useful when you are hosting your own website if the server or other server behind the Device. Before using this feature, you need to sign up with DONS service provider is with your own password news. Rolew these instructions to set up DDNs. Word website instructions to set up DDNS. Tour seleded dynamic DNS Service provider is www.nchin.com. Let the busin service provider is www.nchin.com. Let the busin when you received from dynamic DNS service provider is website. Let the the Busin Mane for your DDNS account. Let the busin busine you received from dynamic DNS service. DINS endored from the busin mane for your DDNS service. Connection Status - The status of the DDNS service connection to size device. List to logout of the DDNS service. DINS endored citic the Logon button. Holps and the Login button.

#### 6.2.2 Configure DDNS to router

After you have applied the DDNS service, your will get the account information which including username, password, host name, etc. Please enter the account information to the DDNS configuration web page of your router to enable the DDNS service.

TP-LINK	<b>C</b> *		150M Wireless Lite N Router Model No. TL-WR741N/TL-WR741ND
Status Quick Setup	DDNS		DDNS Help
Network Wireless DHCP Forwarding	Service Provider: User Name: Password:	No-IP ( www.no-ip.com )  Go to redister_ username	DDNS lets you assign a fixed host and domain name to a dynamic DDNS lets you assign a fixed host and domain name to a dynamic Internet IP address. It is useful when you are hosting your own website, FTP server, or other server behind the Device, Before using this feature, you need to sign up width DDNS service providers such as <u>www.no- ip.com</u> . The Dynamic DNS client service provider will give you a password or key.
Security Parental Control Access Control Advanced Routing	Domain Name: Connection Status:	Enable DDNS DDNs not launching	Follow these instructions to set up DDNS: If your selected dynamic DNS Service Provider is <u>www.no-ip.com</u> . 1. Enter the User Name for your DDNS account 2. Enter the Password for your DDNS account 3. Enter the Domain Name your cecked from dynamic DNS service
Bandwidth Control IP & MAC Binding Dynamic DNS System Tools		Login Logiut Save	<ul> <li>provider.</li> <li>Circk He Login button to login to the DDNS service.</li> <li>Connection Status - The status of the DDNS service connection is displayed here.</li> <li>Circk Logout to logout of the DDNS service.</li> </ul>
			Notice: If you want to login again with another account after a successful login, please click the Logout button, then input your new username and password and click the Login button.

#### 6.2.3 Reserve fixed IP Address for CG102BS

Power-up the CG102BS according to the section 3 of current document, and then open the admin web page of the TP-Link router. From the "DHCP Client List" web page of the TP-Link router, find the "MAC address" and "Assigned IP" of the CG102BS.

TP-LINK	<b>C</b> °				150M Wireless Life N Router Model No. TL-WR741N / TL-WR741ND
Status Quick Setup QSS	DHCP Clients I	List			DHCP Clients List Help This sage shows Client Name, MAC Address, Assigned IP and Lease Time of ach DHCP Client concerted to the Device.
Wireless DHCP - DHCP Settings - DHCP Clients List	ID Client Name Uuser-VAIO CG102BS	MAC Address 54-42-49-A1-F3-59 70-8B-78-FF-FF-36	Assigned IP 192168.0.100 192.168.0.101	Lease Time 01:26:25 01:29:43	Client Name - The name of the DHCP client     MAC Address - The IAAC address of the DHCP client.     Assigned IP - The IP address that the Device has allocated to the     DHCP client.     Lease Time - The time of the DHCP client leased.      You cannot change any of the values on this page. To update this page
- Address Reservation Forwarding Security Parental Control		Refresh			and to show the current connected devices, click on the Refresh button.
Access Control Advanced Routing Bandwidth Control IP & MAC Binding					
Dynamic DNS System Tools					

Go to the "Address Reservation" page and click the "Add New" button.

TP-LINK <sup>®</sup>	150M Wireless Lite N Router Model No. TL-WR741N / TL-WR741ND
Status Ouck Sotup Ouck	Address Reservation Help         When you specify a reserved IP address for a PC in the LAN, that PC will address reserve the server the server reserver. Reserved IP addresses could be assigned to servers the reserver. The Halp address for.

Enter the "MAC Address" of the CG102BS and enter the desired IP address in the "Reserved IP Address" field. The desired IP address could be the "Assigned IP" in the "DHCP Client List" web page.

### 6.2.4 Port Forwarding

Open the Port Forwarding configuration page of the TP-Link router and click the "Add New" button.

Status         Quick Setup         QSS         Network         Wireless         QHCP         Forwarding         -Virtual Server         - Wireless         QHCP         Forwarding         - Wireless         - Wireless         QHCP         - Wireless         - Wireless	TP-LIN	K,	150M Wireless Lite N Router Model No. TL-WR741N//TL-WR741ND
System Tools  1. Click the Add Hew., button. 2. Select the service pow and to use from the Common Service Port list. If the Common Service Port menu does not list the service that you want to use, from the Merce Port tool. 3. Enter the Paddress of the Computer running the service application in the PAddress box. 4. Select the rundrood service port and 5. Select the Enabled cption in the Service pown list. 5. Select the Enabled cption in the Service pown list. 5. Select the Enabled cption in the Status pull-down list. 5. Click the Save button. Note: It is possible that you have a computer or server that has more	Status Quick Setup QSS Network Wireless DHCP Forwarding • Virtual Servers • Port Triggering • DuZ • UPnP Security Parental Control Access Control Advanced Routing Bandwidth Control IP & MAC Binding Dynamic DNS System Tools	Virtual Servers         ID Service Port       Internal Port       IP Address       Protocol       Status       Modify         Add New       Enable All       Disable All       Delete All         Previous       Next	Virtual Servers Help           Virtual servers can be used for setting up public services on your LAN.           A virtual server is defined as a service port, and all requests from Internet to this service port will be redireded to the computer specified by the server PA nPC Enta was used for a virtual server must have a static or reserved IP address because its IP address may change when using the DHCP function.           • Service Port - The numbers of External Service Ports. You can enser a service a port or ange of service ports (the format static or reserved IP address of External Service Ports. You can enser a service a port or ange of service ports (the format static or the UHCP function.           • Internal Dort - The internal Service Port is some or the PC running the service application. You can leave it blank if the assecting out multice with service Port is a single one application.           • IP Address - The IP address of the PC running the service application.           • Protocol - The protocol used for this application, either TCP, UUP, or All all protocols supported by the Device).           • Status - The status of this entry. "Enabled" means the virtual server entry is enabled.           • Common Service Port - Some common services already exist in the publicown itst.           • Modify - To mouth or delete an existing entry.           To status artical server entry.           • Cold: the Add New button           • Bedt the service aport any in the service port or service port range in the Service Port too.           • Bedt the protocol used for this application in the Protocol box, either tCP, UUP, or All.

Add a new port forwarding configuration in the page, which the setting should be:

Service Port: 10004 Internal Port: 10004 IP Address: 192.168.0.101 (Reserved IP address of the CG102BS) Protocol: ALL (TCP & UDP) Status: enabled Common Service Port: --Select One—(Do not need to change)

Then save the setting to the router.

TP-LIN	K°		150M Wireless Lite N Router Model No. TL-WR741N / TL-WR741ND
Status Quick Setup QSS Network Wireless	Add or Modify a Virtual Service Port: Internal Port:	Server Entry 000-000 or 100) (000, Only valid for single Service Port or leave a blank)	Virtual Servers Help Virtual servers can be used for setting up public services on your LAN. A virtual server is defined as a service port, and all requests from Internet for this service port will be redirected to the computer specified by the server IP. Any PC that was used for a virtual server must have a static or reserved IP address because is IP address may change
- United Servers - Port Triggering - DMZ - UPnP Security - DMA - DMA - DMA - DMA - DMA - DMA - UPnP - DMA -	IP Address: Protocol: Status: Common Service Port:	ALL	when using the DHOP function. Service Port. The numbers of External Service Ports. You can extra a service port or a range of service ports (the format is extra service port or a sampe of service ports). Internal Port. The Internal Service Port number of the PC running the service application. You can leave it blank if the Internal Port is the same as the Service Port, or enter a specific port number when Service Port is a single one. IP Address - The IP address of the PC running the service application.
Access Control Access Control Advanced Routing Bandwidth Control IP & MAC Binding Dynamic DNS Eventeen Total		Save Back	<ul> <li>Protocot - the protocol supported by the Device).</li> <li>Status - The status of this entry. "Enabled" means the virtual server entry is enabled.</li> <li>Common Service Port - Some common services already exist in the pull-down list.</li> <li>Modify - To modify or delete an existing entry.</li> <li>To setup a virtual server entry:</li> </ul>
system roos			1. Click the Area retrow. Journal to tuse from the Common Service 2. Perfect in three your Service Port menu does not itsid the service that you want to use, enter the number of the service port or service port range in the Service Port box.     3. Enter the IP address of the computer running the service application in the IP address box.     4. Select the protocol use of or this application in the Protocol box, either TCP, UDP, or All.     5. Select the Enabled option in the Status pull-down list.     6. Click the Save butch as computer or server that has more than one they of available service. If so select another service, and

<b>TP-LINI</b>	K						150M Wireless Lite N Router Model No. TL-WR741N / TL-WR741ND
Status							
Quick Setup	Virtual Serve	rs					Virtual Servers Help
QSS							Virtual servers can be used for setting up public services on your LAN.
Network	ID Service Port	Internal Port	IP Address	Protocol	Status	Modify	Internet to this service port will be redirected to the computer specified
Wireless	1 10004	10004	102 168 0 101	AL 1	Enabled	Modify Delete	by the server IP. Any PC that was used for a virtual server must have a static or reserved IP address because its IP address may change
DHCP	1 10004	10004	132.100.0.101	7 Marka	Endored	mount berete	when using the DHCP function.
Forwarding							Service Port - The numbers of External Service Ports. You can
- Virtual Servers	Add New	Enable All	Disable All Del	lete All			enter a service port or a range of service ports (the format is XXX - VVX XXX is Start port, XXX is End port)
- Port Triggering							Internal Port - The Internal Service Port number of the PC
- DMZ		F	Previous Ne	xt			running the service application. You can leave it blank if the Internal Port is the same as the Service Port, or enter a
- UPnP							specific port number when Service Port is a single one.
Security							<ul> <li>IP Address - The IP address of the PC running the service application.</li> </ul>
Parental Control							<ul> <li>Protocol - The protocol used for this application, either TCP,</li> </ul>
Access Control							<ul> <li>Status - The status of this entry, "Enabled" means the virtual</li> </ul>
Advanced Routing							server entry is enabled.
Bandwidth Control							in the pull-down list.
IP & MAC Binding							<ul> <li>Modify - To modify or delete an existing entry.</li> </ul>
Dynamic DNS							To setup a virtual server entry:
System Tools							1. Click the Add New button.
							<ol> <li>Select the service you want to use from the Common Service Port list, the Common Service Port menu does not list the service that you want to use, enter the number of the service port or service port range in the Service Port box.</li> <li>Enter the IP address of the computer running the service application in the PAddress ook.</li> <li>Sector PAddress of the computer running the service application in the PAddress ook.</li> <li>Sector Paddress of the computer running the service application in the PAddress ook.</li> <li>Sector Paddress of the Service Port box.</li> <li>Sector Paddress of the Service Port box.</li> <li>Sector Paddress of the Service Port Port Paddress of the Service Port Port Port Paddress of the Service Port Port Port Port Port Paddress of the Service Port Port Port Port Port Port Port Port</li></ol>

### 6.3 Configuration Example (NETGEAR Router)

This section shows the example of the remote access configuration with the NETGEAR router (Model No. WNDR4500).

#### 6.3.1 Apply DDNS

The TL-WR741ND TP-Link router supports DynDNS service, details of the DDNS service please contact the NETGEAR router manufacturer.

	ADVANCED	(i) A router firmware upgrade is available.	English
VANCED Home	Dynamic DNS		
up Wizard		Apply XCancel Show Status	
S Wizard			
etup ()	Use a Dynamic DN	S Service	
SB Storage			
ecurity	Service Provider		www.DynDNS.org
deviation	Host Name		www.byiibiko.org
dministration	User Name		
dvanced Setup	Password		
ireless Settings			
lireless Repeating			
<u>ort Forwarding / Port</u> riagering			
ynamic DNS			
tatic Routes			
emote Management			
PnP			
<u>v6</u>			
affic Meter			
<u>SB Settings</u>			

#### 6.3.2 Configure DDNS to router

After you have applied the DDNS service, your will get the account information which including username, password, host name, etc. Please enter the account information to the DDNS configuration web page of your router to enable the DDNS service.

NETGEAR <sup>.</sup> Q	enie <sup>"</sup>		Logout
WNDR4500			Firmware Version V1.0.1.20 1.0.40
BASIC	ADVANCED	A router firmware upgrade is available.	English •
ADVANCED Home	Dynamic DNS		
Setup Wizard		Apply > XCancel Show Status	
VPS Wizard			
Setup )	🖉 Use a Dynamic DN	S Service	
USB Storage	Canada Develder		D DNO
Security	Service Provider		www.DyhDNS.org •
Administration	Host Name		
Advanced Setup	UserName		
Vireless Settings	Password		
Nireless Repeating			
Port Forwarding / Port Triggering			
Dynamic DNS			
Static Routes			
lemote Management			
Pv6			
raffic Meter			
USB Settings			
	Allele Center		Chevalida Usin Cantas
	Theip Center		<u>Snow/nice help Center</u>
	tation   Online Support   Bouter	-40	
nerp a support Documen	nation   Online Support   Router i	St St	GO

#### 6.3.3 Reserve fixed IP Address for CG102BS

Power-up the CG102BS according to the section 3 of current document, and then open the admin web page of the NETGEAR router. From the "Attached Devices" web page of the NETGEAR router, find the "IP Address" and "MAC address" of the CG102BS.

ADVANCED	A router firmw	are upgrade is available.	English
Attached Devices			
		G Refresh	
-			
Wired Devices	IP Address	Device Name	MAC Address
	- 10.00	ALC: NO.	575553
		Real Property	1 100000
	-222		121773
	222		063288
	-8813	TRUE A	1/2838
	2212	1	1.2.2.2.6.9
	-22/2		0.00000
	333		100000
	8818		1 195359
	-22/2		100 4 2 8 10
19	192.168.1.220	CG102BS	70:8B:78:03:00:00
Wireless Davises (M	ralaas intrudera alas show u	n hara)	
#	IP Address	Device Name	MAC Address
	-22/2		
			0155583
			008589
	-22/2		225522
	-555		052535
	the second se		K WE DOWN
	ADVANCED Attached Devices	ADVANCED  Attached Devices  Wired Devices  # IP Address  19 192.168.1.220  Wireless Devices (Wireless intruders also show u  # IP Address	ADVANCED  Attached Devices  C Refresh  Wired Devices

Go to the "LAN Setup" page and click the "Add" button to add a new address reservation setting.

	ANCED	👔 A router firmware up	grade is available.	E
LAN Set	up			
			Apply  XCancel	
Device	lame			WNDR4500
LAN TC	P/IP Setup			
IR Addre				102 169 1
				152 . 160 . 1 .
IP Subn	et Mask			255 . 255 . 255 .
RIP Dire	ction			Both
RIP Ver	aion			Disat
✓ Use	Router as DHCP Server	r		
Starting	IP Address			192 . 168 . 1 .
Ending	.P Address			192 . 168 . 1 .
	Descention			
Address	#	IP Address	Device Name	MAC Address
-	1 "		201100110110	
			-	
_				
			Statistics, No St.	1.00.0000.00
		a	Construction 1	1.00.00000
		10.100		100000000000000000000000000000000000000
	1		+Add A Edit X Delete	10000000

Enter the desired IP address in the "IP Address" field, the "MAC Address" of the CG102BS in the "MAC Address" field and the name of this address reservation setting. The desired IP address could be the "IP Address" in the "Attached Devices" web page.

)				Firmware Ve V1.0.1.20_
BASIC	CED	A router firmware upgrade	e is available.	English
) Home Address Res	ervation			
ard			Add X Cancel G Refresh	
rd				
Address Res	ervation Table			
Setup	#	IP Address	Device Name	MAC Address
Setup		100-100-100	10.04	and the same and the same
up		10, 10, 10,	1111000	1
ip and a second s		102-02-12	10011000-000-PC	the second second second second
ID.		100-100-1-0	And income in the local data	0.0 1 0.0 1
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#### 6.3.4 Port Forwarding

Open the Port Forwarding configuration page of the NETGEAR router and click the "Add Custom Service" button.

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VANCED Home	Port Forwardin	g / Port Triggering					
etup Wizard							
PS Wizard	Please select t	he service type.					
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	O Port Trigger	ing					
ISB Storage	Complete Name			Company ID Address	2		
ecurity	Service Name	•		Server IP Address	5	- Add	
dministration		· ·		192 . 100		TAUL	
dvanced Setup	#	Service Name	External Start Port	External End Port	Internal Start Port	Internal End Port	Internal IP address
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Add a new port forwarding configuration in the page, which the setting should be:

Service Name: Home Automation

Service Type: TCP/UDP

External Starting Port: 10004

External Ending Port: 10004

Use the same port range for Internet port: Selected

Internal IP Address: 192.168.1.220 (Reserved IP address of the CG102BS) Then "Apply" the setting to the router.

Ports - Custom Services  Service Name Service Type External Starting Port External Inding Port It is the same port famous for laternal port It is the same port	Apply ► TCP/UDP ▼	×Cancel	
Service Name Service Type External Starting Port External Ending Port		×Cancel	
Service Name Service Type External Starting Port External Inding Port	TCP/UDP V		
Service Name Service Type External Starting Port External Ending Port	TCP/UDP V		
Service Type External Starting Port External Ending Port	TCP/UDP V		
External Starting Port External Ending Port			
External Ending Port	(1~65535	)	
I use the same port range for internal port	(1~65535	)	
Internal Starting Port	(1~65535	)	
Internal Ending Port			
Internal IP address	192 . 168 . 1		
	Or select from curre	ntly attached devices	
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		100-100-10	Ban (28) - P() - I

### 6.4 HomeNET App

iPhone

- Open the "Setting" of your iPhone and find the "HomeNET" setting page.
- Switch on the "Internet Access" option
- Input your host name (from your DDNS service provider) into the "Default Internet" field.
- Input "10004" into the "Default Port" field.



iPad

- Open the "Setting" of your iPad and find the "HomeNET" setting page.
- Switch on the "Internet Access" option
- Input your host name (from your DDNS service provider) into the "Default Internet" field.
- Input "10004" into the "Default Port" field.

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	Settings	HomeNET	
۲	General		
	Privacy	IP SETTINGS	
		Internet Access	$\bigcirc$
	iCloud	Default Internet	
Ţ.	Maps	Default IP	
<b>&gt;</b>	Safari	Default Port 10004	
*	Photos & Camera		
	Game Center		
y	Twitter		
f	Facebook		
••	Flickr		
V	Vimeo		
6			
0	SKYEYE		

Android

- Open the "Setting" page of the "HomeNET".
- Enable the "Internet Access" option in "Remote Setting".
- Input your host name (from your DDNS service provider) into the "URL" field.
- Input "10004" into the "Port" field.

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F	Port			port
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F	Port			10004

End of document