

1. WISE6610 use static IP or DHCP client connect to Internet

	IPv4	IPv6
DHCP Client	enabled	disabled
IP Address		
Subnet Mask / Prefix		
Default Gateway		
DNS Server		
Bridged		
	no	
Media Type		
	auto-negotiation	
<input type="checkbox"/> Enable dynamic DHCP leases		
	IPv4	IPv6
IP Pool Start	192.168.1.2	
IP Pool End	192.168.1.254	
Lease Time	600	600 sec

2. Get TTN server IP address

TTN server IP list

Region	Router address
router.eu.thethings.network	EU 433 and EU 863-870
router.us.thethings.network	US 902-928
router.cn.thethings.network	China 470-510 and 779-787
router.as.thethings.network	Southeast Asia 923 MHz
router.as1.thethings.network	Southeast Asia 920-923 MHz
router.as2.thethings.network	Southeast Asia 923-925 MHz
router.kr.thethings.network	Korea 920-923 MHz
router.thethingsnetwork.jp	Japan 923-925 MHz (with EIRP cap according to Japanese regulations)
thethings.meshed.com.au	Australia 915-928 MHz
as923.thethings.meshed.com.au	Australia (Southeast Asia 923MHz frequency plan)
ttn.opennetworkinfrastructure.org	Switzerland (EU 433 and EU 863-870)

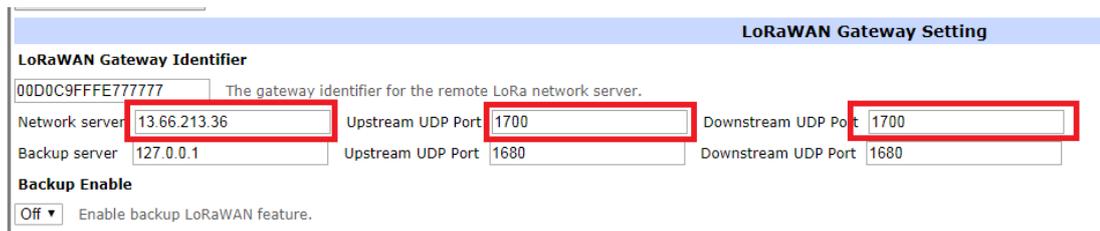
Using ping to getting IP address

```
C:\Users\david32.yang>ping router.us.thethings.network
Ping bridge.us-west.thethings.network [13.66.213.36] <使用 32 位元組的資料>:
```

Here can get router.eu.thethings.network IP is 13.66.213.36

3. Setting LoRaWAN Gateway

Set IP address , and UDP port 1700



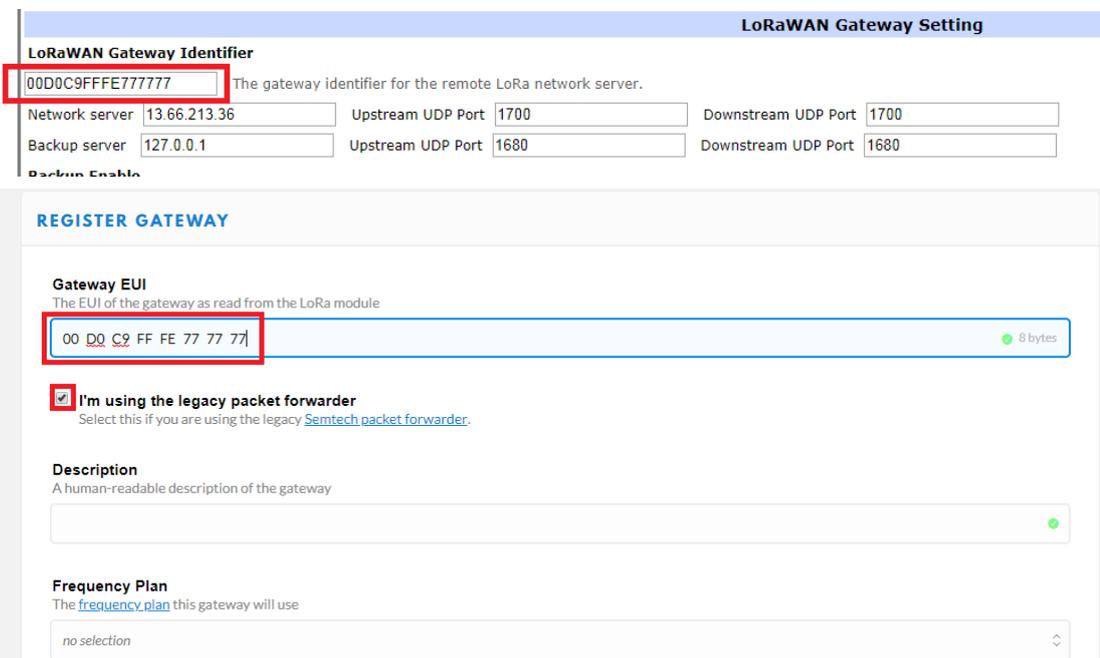
The screenshot shows the 'LoRaWAN Gateway Setting' form. The 'LoRaWAN Gateway Identifier' field is set to '00D0C9FFFE777777'. The 'Network server' is '13.66.213.36', 'Upstream UDP Port' is '1700', and 'Downstream UDP Port' is '1700'. The 'Backup server' is '127.0.0.1', 'Upstream UDP Port' is '1680', and 'Downstream UDP Port' is '1680'. The 'Backup Enable' dropdown is set to 'Off'.

4. Register LoRaWAN Gateway

4-1 go to TTN Web to register gateway

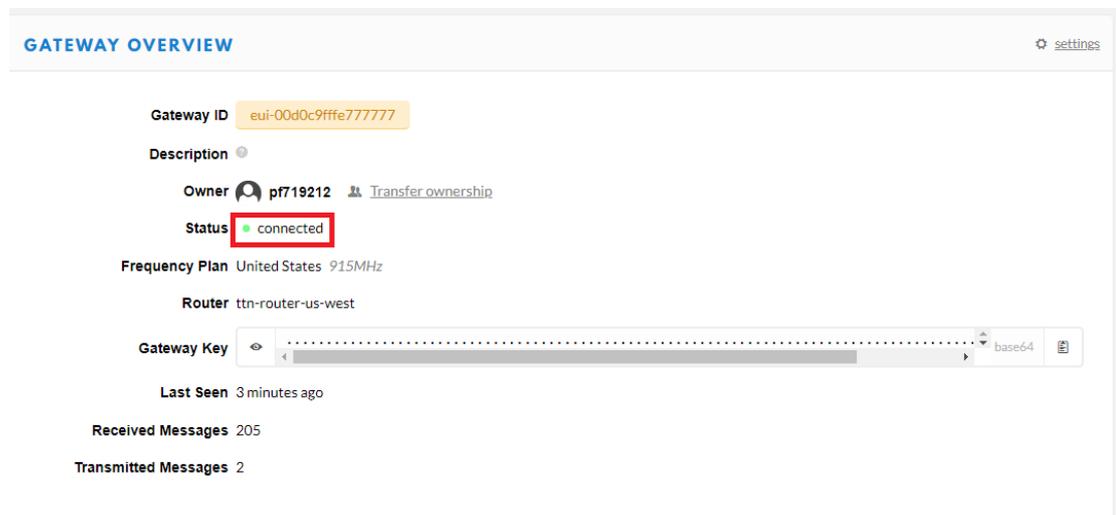
<https://console.thethingsnetwork.org/gateways/register>

4-2 Input Gateway ID, select Band



The screenshot shows the 'REGISTER GATEWAY' form. The 'LoRaWAN Gateway Identifier' is '00D0C9FFFE777777'. The 'Gateway EUI' is '00 D0 C9 FF FE 77 77 77'. The 'I'm using the legacy packet forwarder' checkbox is checked. The 'Description' field is empty. The 'Frequency Plan' dropdown is set to 'no selection'.

4-3 Check Gateway status is connected



The screenshot shows the 'GATEWAY OVERVIEW' page. The 'Gateway ID' is 'eui-00d0c9ffe77777'. The 'Status' is 'connected'. The 'Frequency Plan' is 'United States 915MHz'. The 'Router' is 'ttn-router-us-west'. The 'Gateway Key' is displayed in base64. The 'Last Seen' is '3 minutes ago'. The 'Received Messages' is '205' and 'Transmitted Messages' is '2'.

4-4 Check Gateway traffic is working

GATEWAY TRAFFIC LoRa

uplink downlink join 0 bytes X pause clear

time	frequency	mod.	CR	data rate	airtime (ms)	cnt	
14:23:29	902.5	loro	4/5	SF 7 BW 125	51.5	1	dev addr: 00ABD47E payload size: 17 bytes
14:22:40	903.1		4/5	SF 7 BW 125	61.7		app eui: 70 B3D57ED000059E dev eui: 9C65F9FFFE79EA
14:22:33	903.3		4/5	SF 7 BW 125	61.7		app eui: 70 B3D57ED000059E dev eui: 9C65F9FFFE79EA
14:22:26	902.5		4/5	SF 7 BW 125	61.7		app eui: 70 B3D57ED000059E dev eui: 9C65F9FFFE79EA
14:22:19	902.7		4/5	SF 7 BW 125	61.7		app eui: 70 B3D57ED000059E dev eui: 9C65F9FFFE79EA
14:22:12	902.3		4/5	SF 7 BW 125	61.7		app eui: 70 B3D57ED000059E dev eui: 9C65F9FFFE79EA
14:22:05	903.1		4/5	SF 7 BW 125	61.7		app eui: 70 B3D57ED000059E dev eui: 9C65F9FFFE79EA
14:21:58	902.5		4/5	SF 7 BW 125	61.7		app eui: 70 B3D57ED000059E dev eui: 9C65F9FFFE79EA
14:21:51	903.7		4/5	SF 7 BW 125	61.7		app eui: 70 B3D57ED000059E dev eui: 9C65F9FFFE79EA

