NPE X1000 Quick Start Guide

1. Connecting the Device

POWER:
9 ~ 24 V
AC/DC

ETHERNET CONNECTION:
RJ45

steady red light when power on

steady orange light when working properly
blinking green light if system ready

} user LEDs
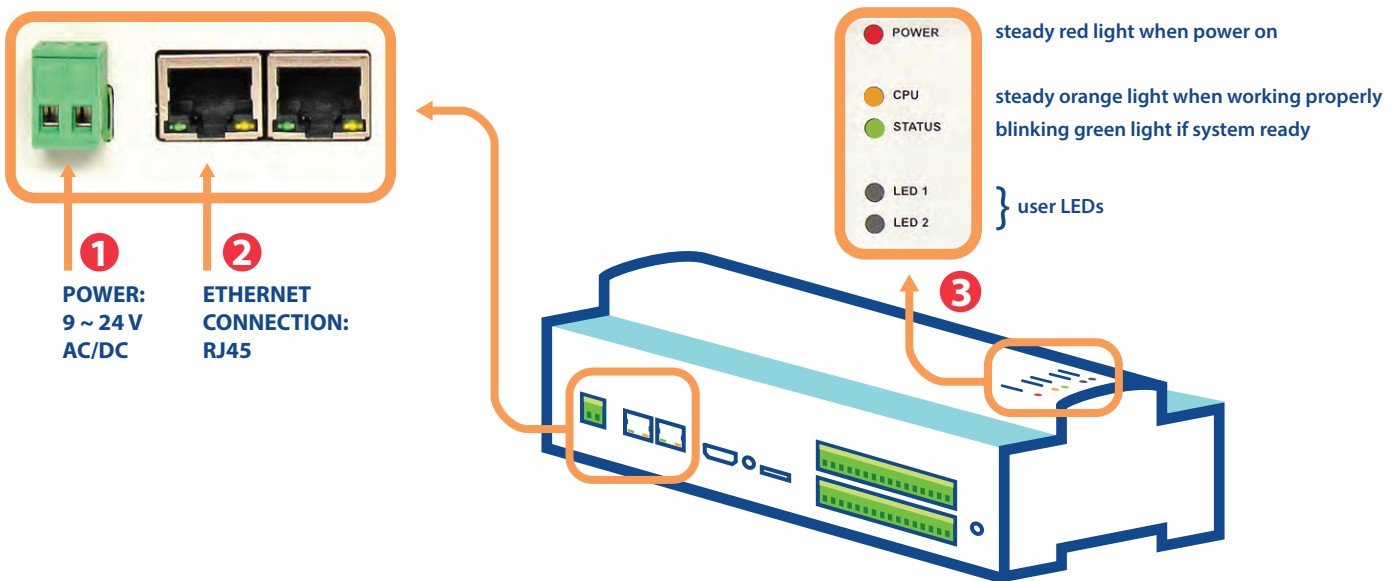
Checking device IP

Using iModCloud: log into iModCloud, click *Devices* in the Menu on the left side.

- Select your device and check *ETH IP* in the *Ethernet* box. *

Using SearchNPE: use SearchNPE to detect iMod/NPE devices on the network and to determine IP address.

- Find the application at http://www.a2s.pl/products/npe/SearchNPE_PZA2S.zip *

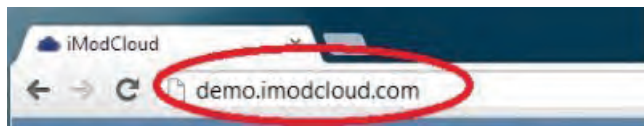* Internet connection via Ethernet port required

Internet connection via Ethernet port not required
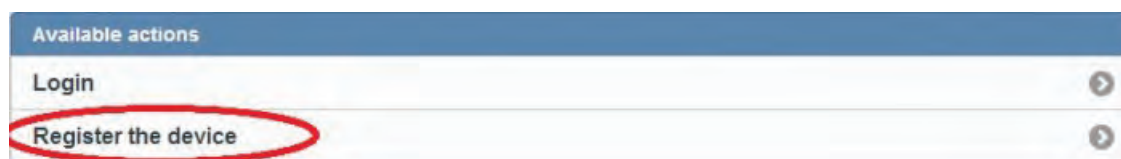
2. Registering in iModCloud

In order to register NPE X1000 in iModCloud make sure your device is connected to the Internet via Ethernet port described in section 1. If your device is not connected, go to *SSH Connection.*
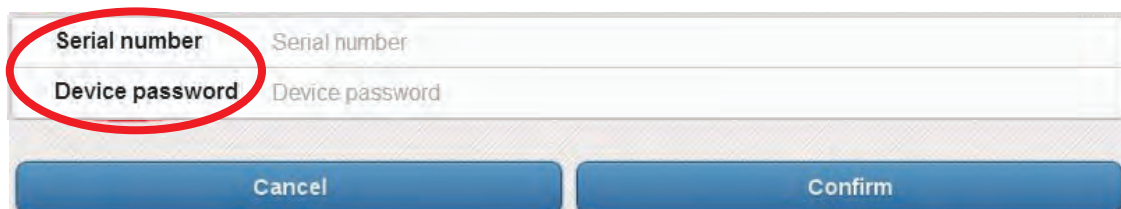
- **Type demo.imodcloud.com in your web browser**

- **Register your device**

You will find Serial number and Device password on the label (check the right side of the device)

- **Activate your account:** click the *Activate the account* button to view a form. After completing the form you will receive an email with activation link.

After registering the device and activating the account, you will see the following view:

status	beep	ping	Refresh parameters

2013-08-07 12:34
Device is online

Name	Demo Unit #1
VPN IP	10.8.55.3
MAC address	18:83:C4:04:22:C0
STATUS	
Nx Dynamics	http://nx.imodcloud.com:8080/nx/?ip=10.8.0.25

It is possible to register yor device offline. Status will change to online as soon as the Internet connection is established.
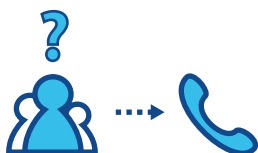
If you have any problems with logging to iModCloud, don't hesitate to contact us.

3. GPRS/3G Connection

INSERT SIM CARD

SIM CARD

ANTENNA CONNECTION

GSM

GPS

1 In order to remove your SIM card from the tray insert the straight end of a paperclip or SIM eject tool into the hole next to the SIM port.

3G Connection

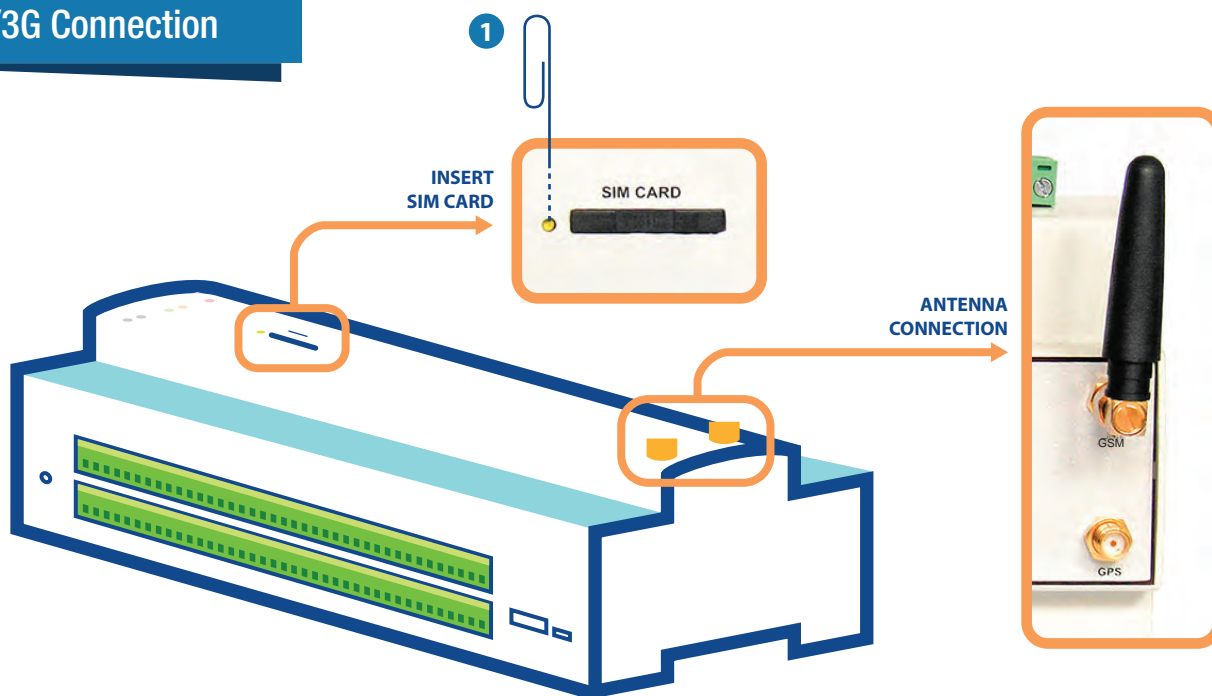There are 2 ways to establish 3G connection:

With iModCloud:

Actions

CONFIGURE GSM

GPRS CONNECT
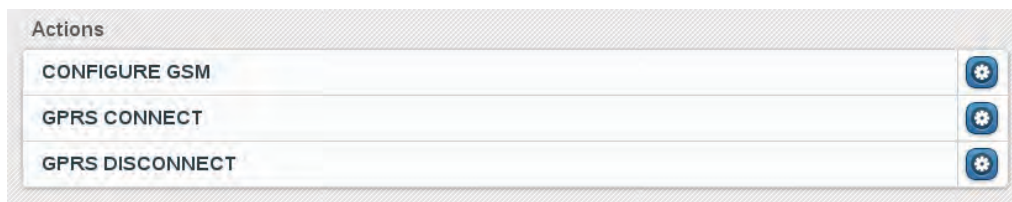
GPRS DISCONNECT

1. Press GPRS CONFIGURE in order to configure GPRS connection.
2. Press GPRS CONNECT in order to establish GPRS connection.
3. Press GPRS DISCONNECT in order to disconnect.
4. In order to check connection status go to *Devices*, choose your device and click on the *GPRS* drop-down menu to view *GPRS STATUS*.

After clicking an action button a notification will appear.

With SSH Console:

1. Type *gsmconfigure* in order to setup modem.
2. Type *gsmconnect* into the terminal in order to establish 3G connection.
3. Type *gsmdisconnect* into the terminal in order to disconnect.
4. Use the *gsmstatus* command to check connection status.

```
GSM Conenction Utility - command gsmstatus
STATUS: CONNECTED
MODEM_INFO: Dell Wireless 5540
```

SSH Connection

If the device is connected to the network and you know its IP address, you can connect by port 22 (default in SSH) e.g., using PuTTY.

- port 22
- Login: root
- Password: techbase


```
192.168.6.40 - PuTTY
login as: root
root@192.168.6.40's password:
root@npe-x1000:~#
```

4. Pinout

TERMINAL 1

USER BUTTON	ANALOG IN					CONFIG. DIGITAL IN/OUT														microSD	BOOT BUTTON	HDMI		LAN2 (eth1)	LAN1 (eth0)		POWER
	GND	1	2	3	4	CWD	GND	1	2	3	4	GND	5	6	7	8										V+ V-

ANALOG IN | GND 5 6 7 8 — **CONFIG. DIGITAL IN/OUT** | CWD GND 9 10 11 12 GND 13 14 15 16

TERMINAL 2

RESET BUTTON	RELAY1	OPTO DIGITAL IN	COM3	COM2	COM6	COM5	AUDIO OUT	AUDIO IN	
	COM NO	1 2 3 4 OGND 5 6 7 8	NC B(+) A(-)	B(+) A(-)	CTS RTS TxD RxD GND	RI DTR DCD DSR CTS RTS TxD RxD GND	R GND L	R GND L	
	RELAY2	OPTO DIGITAL OUT	CAN	1-WIRE	COM4	COM3 COM2 COM1	HEADPHONES	MICROPHONE	USB HOST / USB OTG
	COM NO	1 2 3 OGND 4 5 6 OGND CWD	HIGH LOW	3.3V DATA GND	CTS RTS TxD RxD GND	TxD RxD GND / TxD RxD GND / TxD RxD GND	R GND L	BIAS GND IN	

5. Contact

- For further information on NPE and related products visit: http://www.techbase.eu/en
- The A2S.pl online catalog offers hardware and software products for purchase: http://www.a2s.pl/en
- For more information on iModCloud visit: http://www.imodcloud.com/en/

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