

## IP-Bus opsætning med MOXA modem

På N-port må følgende indstillinger være opsat.

Forbind til modem via din browser. Enheden har fra fabrikken adresse 192.168.127.254 PC'en skal derfor i netværkskortets indstilling, være i dette adresseområde.

IP adresse m.v. kan vælges. Øvrige indstillinger sættes som de efterfølgende billeder viser.

The screenshot shows the Moxa NPort Web Console interface in a browser window. The address bar shows the URL 192.168.127.254. The page header includes the Moxa logo and the text "Total Solution for Industrial Device Networking" and "www.moxa.com". A green status bar at the top displays device information:

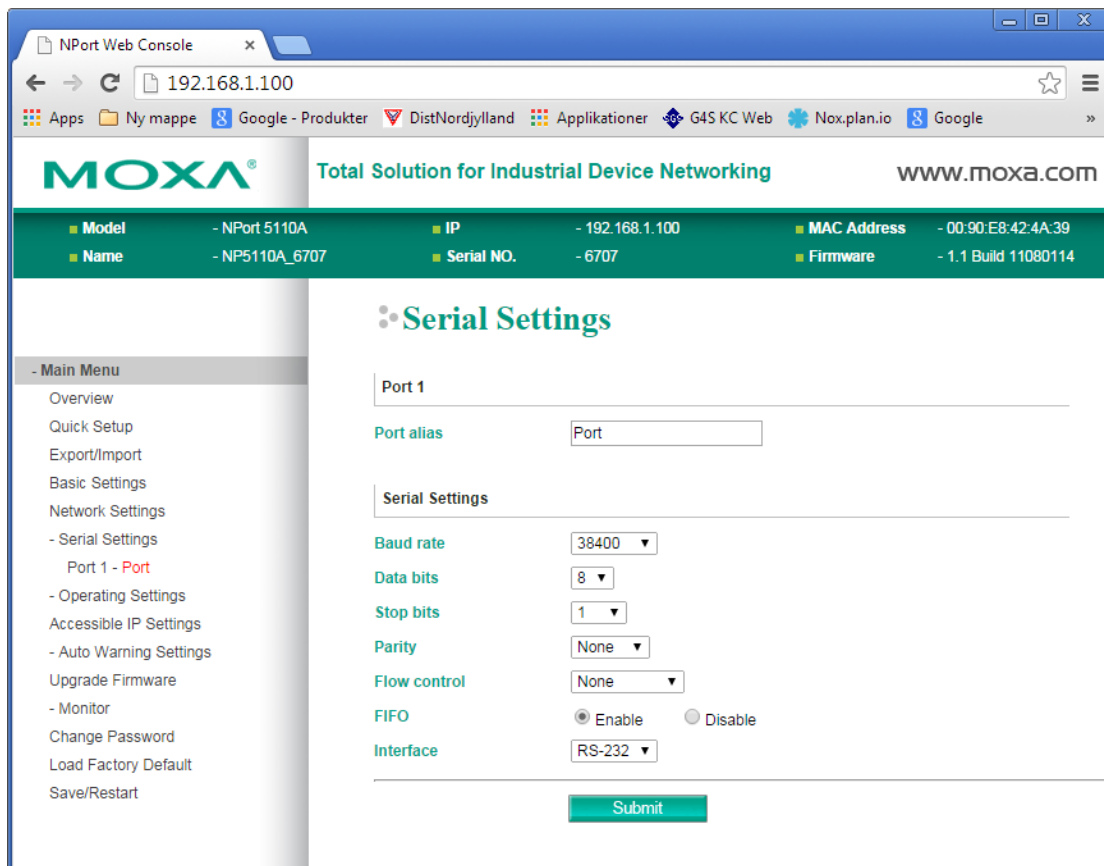
Model	- NP0rt 5110A	IP	- 192.168.1.100	MAC Address	- 00:90:E8:42:4A:39
Name	- NP5110A_6707	Serial NO.	- 6707	Firmware	- 1.1 Build 11080114

The main content area is titled "Network Settings" and contains the following configuration options:

- Network Settings**
  - IP address: 192.168.1.100
  - Netmask: 255.255.255.0
  - Gateway: 192.168.1.1
  - IP configuration: Static
  - DNS server 1: (empty)
  - DNS server 2: (empty)
- SNMP Settings**
  - SNMP:  Enable  Disable
  - Community name: public
  - Contact: (empty)
  - Location: (empty)
- IP Address Report**
  - Auto report to IP: (empty)
  - Auto report to UDP port: 4002
  - Auto report period: 10 seconds

A "Submit" button is located at the bottom of the form. A status bar at the bottom left of the browser window shows "Opretter forbindelse..." (Creating connection...).

Tryk på Submit, vent til der er genstartet og gå videre.



The screenshot shows the Moxa NPort Web Console interface. The browser address bar displays 192.168.1.100. The page header includes the Moxa logo, the text "Total Solution for Industrial Device Networking", and the website URL "www.moxa.com". A status bar at the top provides device information:

Model	- NPort 5110A	IP	- 192.168.1.100	MAC Address	- 00:90:E8:42:4A:39
Name	- NP5110A_6707	Serial NO.	- 6707	Firmware	- 1.1 Build 11080114

The main content area is titled "Serial Settings". Under "Port 1", there is a "Port alias" field containing "Port". Below this is the "Serial Settings" section with the following configurations:

- Baud rate: 38400
- Data bits: 8
- Stop bits: 1
- Parity: None
- Flow control: None
- FIFO:  Enable  Disable
- Interface: RS-232

A "Submit" button is located at the bottom of the settings section.

Tryk på Submit, vent til der er genstartet og gå videre.

The screenshot shows the MOXA NPort Web Console interface. At the top, there is a navigation bar with the MOXA logo and the text "Total Solution for Industrial Device Networking" and "WWW.MOXA.COM". Below this is a status bar with the following information:

Model	- NPort 5110A	IP	- 192.168.1.100	MAC Address	- 00:90:E8:42:4A:39
Name	- NP5110A_6707	Serial NO.	- 6707	Firmware	- 1.1 Build 11080114

The main content area is titled "Operation Modes" and is divided into two sections: "Port 1" and "Data Packing".

**Port 1**

- Operation mode: TCP Server (dropdown)
- TCP alive check time: 7 (0 - 99 min)
- Inactivity time: 65535 (0 - 65535 ms)
- Max connection: 4 (dropdown)
- Ignore jammed IP:  No  Yes
- Allow driver control:  No  Yes
- Local TCP port: 4001 (input field)
- Command port: 966 (input field)

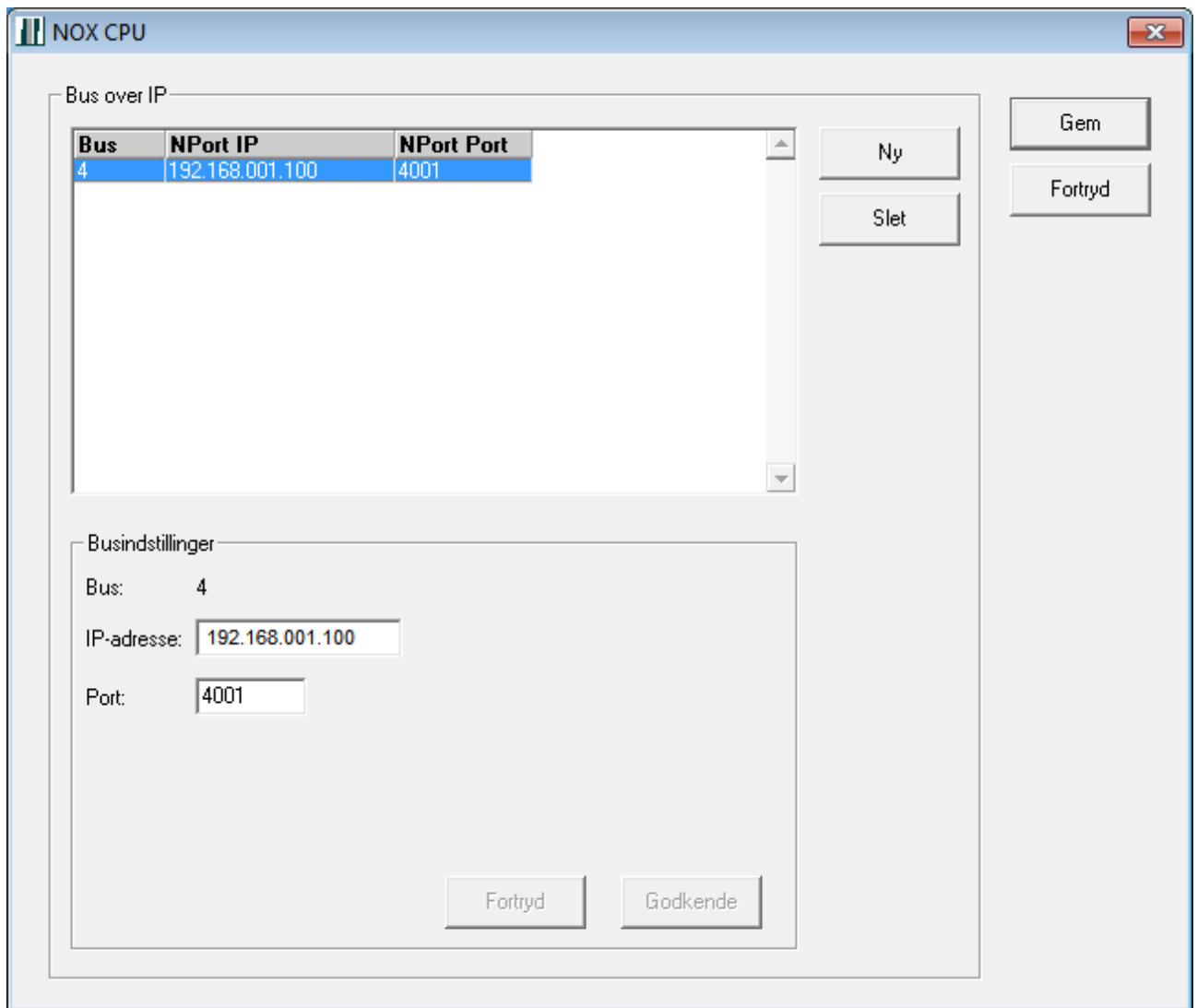
**Data Packing**

- Packing length: 0 (0 - 1024)
- Delimiter 1: 00 (Hex)  Enable
- Delimiter 2: 00 (Hex)  Enable
- Delimiter process: Do Nothing (dropdown) (Processed only when packing length is 0)
- Force transmit: 0 (0 - 65535 ms)

A "Submit" button is located at the bottom of the configuration area.

Til slut genstartes enheden og der kontrolleres for om indstillingerne er korrekt sat. I tilfælde af router på netværket, skal port 4001 åbnes, ellers kommer der ingen forbindelse til enheden. Nporten anvender også port 23 og 80 som normalt er åben for trafik. MOXA tilsluttes en NOX RPT. Se nedenfor

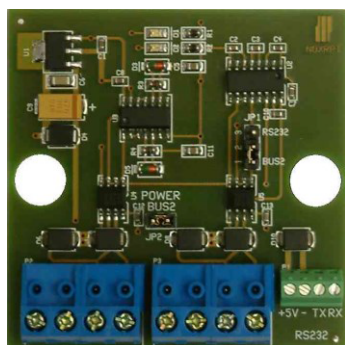
I NOX konfig defineres den IP forlagte bus: Vælg CPU under fanen Enheder. Dobbeltklik på CPU. Vælg Ny. Sæt indstillingerne IP-adresse og Port.



IP-adresse skal være din Nports IP-adresse. Port, er porten i netværket som er 4001  
Tryk Godkende og Gem. Enheden er færdig opsat og der er tilføjet en BUS 4.  
Flere IP busser kan oprettes med hver sin IP adresse.

## Tilslutning af Nport til NOX RPT

### NOXRPT



#### Terminalforbindelser:

terminal P1	1	2	3	4
ben	5 VDC	GND	RX	TX
beskrivelse	reserve	serielt interface (RS232)		
Nport DB9:		5	3	2

terminal P2	+	-	A	B
ben	9-15.5 VDC	GND	Bus 1 A	Bus 1 B
beskrivelse	forsyningsspænding 1 (VBUS1)		bus 1 – indgang	

terminal P3	+	-	A	B
ben	9-15.5 VDC	GND	Bus 2 A	Bus 2 B
beskrivelse	forsyningsspænding 2 (VBUS2)		bus 2 – udgang	

#### Jumperindstillinger:

JP1	1-2	2-3
funktion	repeater	serielt interface
udgang	Bus 2 udgang	RS232

JP2	ON	OFF
funktion	VBUS1=VBUS 2	VBUS2 ekstern

Tilslut ekstern forsyningsspænding 12-15VDC til P3 eller P2 + og –

Forbind Nport DB9 til P1. Gnd til 5, TX til 2, RX til 3

Tilslut NOX enheder til P2

Sæt jumper JP1 i stilling RS232. Jumper JP2 skal være sat.

Monter en modstand på 1KΩ fra P1 1 +5V til P2 A

Monter en modstand på 1KΩ fra P1 2 GND til P2 B

NB! Den IP forlagte bus endetermineres med 2 x 120Ω som sædvanligt på den anden side af RPT.

## Anvendelse af LIF-200 til IP-Bus

En LIF-200 har den fordel at den ikke skal anvende en RPT idet den har RS485 udgang.

LIF-200 opsætning i browser (Ip adresse std. 192.168.1.125)

Log ind med:

RBH

password

Opsæt IP- adresse, Serial type: RS485, Baud Rate: 38400.

I NOX CPU bus 4 opsætning, skal porten ændres fra 4001 til 3002.

The screenshot shows a web browser window with the address 192.168.1.125. The page title is "One Page Quick Setup (Fixed IP)". The interface is divided into a left sidebar and a main content area. The sidebar contains the RBH logo and a menu with sections: "Main Menu" (One Page Setup), "Advanced Setup" (Operation Mode, Serial Type, Dynamic DNS), and "Management" (Device Admin, System Status, Backup & Restore). The main content area has a dropdown menu set to "TYPE: STATIC IP". Below this are several form fields:

IP Address	192 . 168 . 1 . 125
Subnet mask	255 . 255 . 255 . 192
Gateway	192 . 168 . 1 . 1
Primary DNS	8 . 8 . 8 . 8
<b>Serial Port Mode</b>	
Serial Type	RS485
Baud Rate	38400 0 (User Defined)
<b>Operation Mode</b>	
Connection Mode	TCP SERVER
Connection Port Number	3002
Remote Host IP Address (For Client Only)	0 . 0 . 0 . 0

At the bottom of the form are three buttons: APPLY, CANCEL, and BACK.

The screenshot shows a web browser window with the address bar displaying '192.168.1.125'. The page title is 'Operation Mode Setup (TCP Server)'. The interface includes a sidebar menu on the left with the following sections:

- Main Menu**
  - One Page Setup
- Advanced Setup**
  - Operation Mode
  - Serial Type
  - Dynamic DNS
- Management**
  - Device Admin
  - System Status
  - Backup & Restore

The main content area contains the following configuration fields:

MODE: TCP SERVER ▼	
Local Listen Port Number	3002
Close Connection When Remote Idle	100 (seconds)
Access Password	(maxlen 31)
Keep Alive Check	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Max TCP Connection	4 ▼

At the bottom of the form are three buttons: APPLY, CANCEL, and BACK.

På klemmen til NOX bussen skal der monteres 2 modstande:

3K3 monteres fra 9-30V plus til 485+.

1K0 monteres fra 9-30V minus til 485-

Eventuelt skal der anvendes den normale 120ohm over bussen hvis enheden sidder i den ene ende af bussen.