

Ethernet/Powerlink Gateway



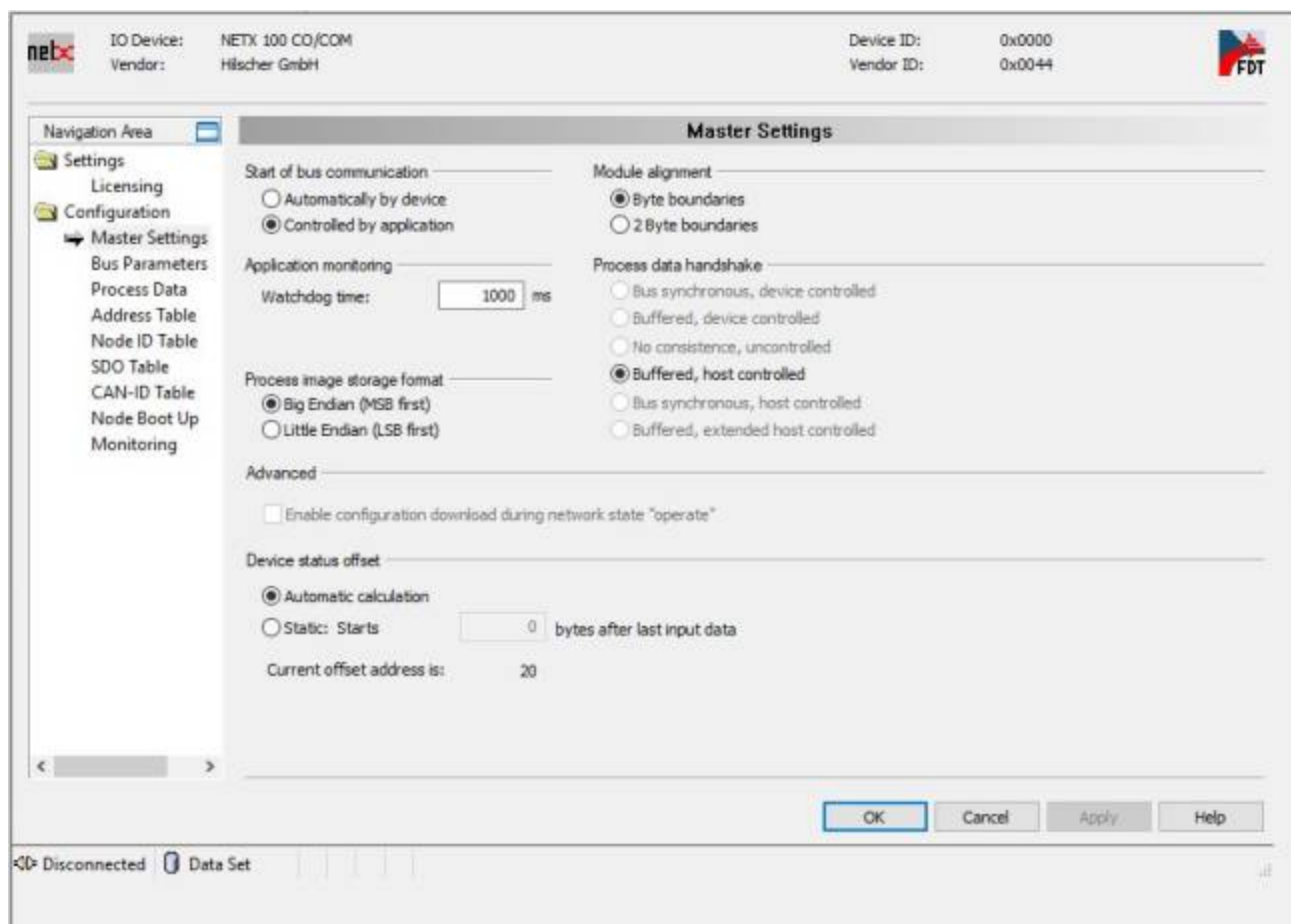
This page describes the **Ethernet/Powerlink gateway** for controlling the integrated drive motors from an Ethernet/Powerlink master PLC.

In order to control the integrated drive motor with an Ethernet/Powerlink Master PLC, it is possible to use a standard gateway solution.

The NLi motor must be updated with the Extended PDO Firmware. Please contact NILAB for the right firmware.

Hilscher NETX 100 Ethernet/Powerlink to CANopen Gateway

The images below show the gateway and the configuration for the integration.



net

IO Device: NETX 100 CO/COM
Vendor: Hilscher GmbH

Device ID: 0x0000
Vendor ID: 0x0044

FDT

Navigation Area

Settings

Licensing

Configuration

Master Settings

Bus Parameters

Process Data

Address Table

Node ID Table

SDO Table

CAN-ID Table

Node Boot Up

Monitoring

Bus Parameters

Device description: X20IF1041_1a

Node settings

Node ID: 1

Baud rate: 1 MBit/s

☐ Stop in case of monitoring error

☒ Send "Global Start Node"

29 Bit COB-ID

☐ Enable 29 bit COB-ID

Bit 28... Bit 0

Acceptance mask: 00 00 00 00

Acceptance code: 00 00 00 00

SYNC Master Settings

COB-ID: 128

Cycle Period: 32 ms

OK

Cancel

Apply

Help

Disconnected

Data Set

net

IO Device: NETX 100 CO/COM
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Display mode: Hexadecimal

CSV Export

Inputs:

Node ID	Device	Name	Obj. Idx	Obj. Name	COB-ID	Type	Length	Address
0x02	NU (NU_integrated NU (NU_integrated_motor_ex	0x1800 TPDO communication param	0x0182	IB	0x0008	0x0000	0x0000	
0x02	NU (NU_integrated NU (NU_integrated_motor_ex	0x1801 TPDO communication param	0x0282	IB	0x0008	0x0008	0x0008	
0x02	NU (NU_integrated NU (NU_integrated_motor_ex	0x1802 TPDO communication param	0x0382	IB	0x0004	0x0010	0x0010	

Outputs:

Node ID	Device	Name	Obj. Idx	Obj. Name	COB-ID	Type	Length	Address
0x02	NU (NU_integrated NU (NU_integrated_motor_ex	0x1400 RPDO communication param	0x0202	QB	0x0008	0x0000	0x0000	
0x02	NU (NU_integrated NU (NU_integrated_motor_ex	0x1401 RPDO communication param	0x0302	QB	0x0008	0x0008	0x0008	
0x02	NU (NU_integrated NU (NU_integrated_motor_ex	0x1402 RPDO communication param	0x0402	QB	0x0004	0x0010	0x0010	

OK

Cancel

Apply

Help

Disconnected

Data Set

Notes

- The gateway converts the Ethernet/Powerlink master communication to CANopen for the motor. - The motor firmware must support the extended PDO mapping; contact NILAB to obtain the correct firmware. - Follow the gateway configuration shown above for the axis setup. - Refer to the CANopen page for the PDO mapping and the communication parameters.

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Knowledgebase

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