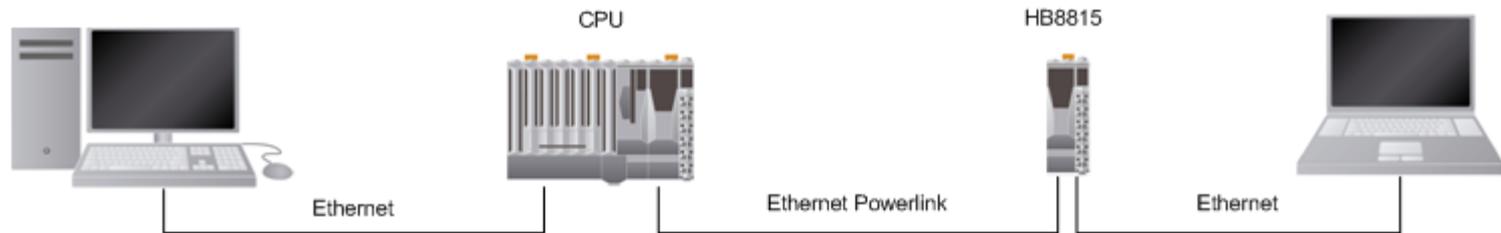


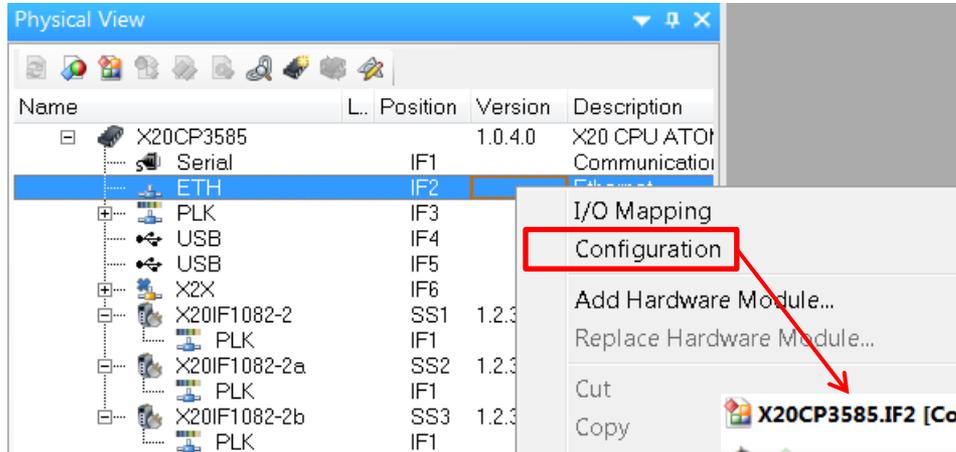


Ethernet Powerlink Gateway
- Configuration example

HB8815 사용법



PLC의 IP 설정(ETH)



X20CP3585.IF2 [Configuration]

Name	Value
X20CP3585.IF2	
Activate interface	on
Redundant parameter	Single CPU Project
Single CPU parameters	
Host name	
Baud rate	auto
Mode	enter IP address manually
IP address	192.168.0.10
Subnet Mask	255.255.255.0
INA parameters	
Activate online communication	on
Port number	11159
Redundant INA configuration	Single CPU

PLC의 POWERLINK(PLK) 설정



Physical View

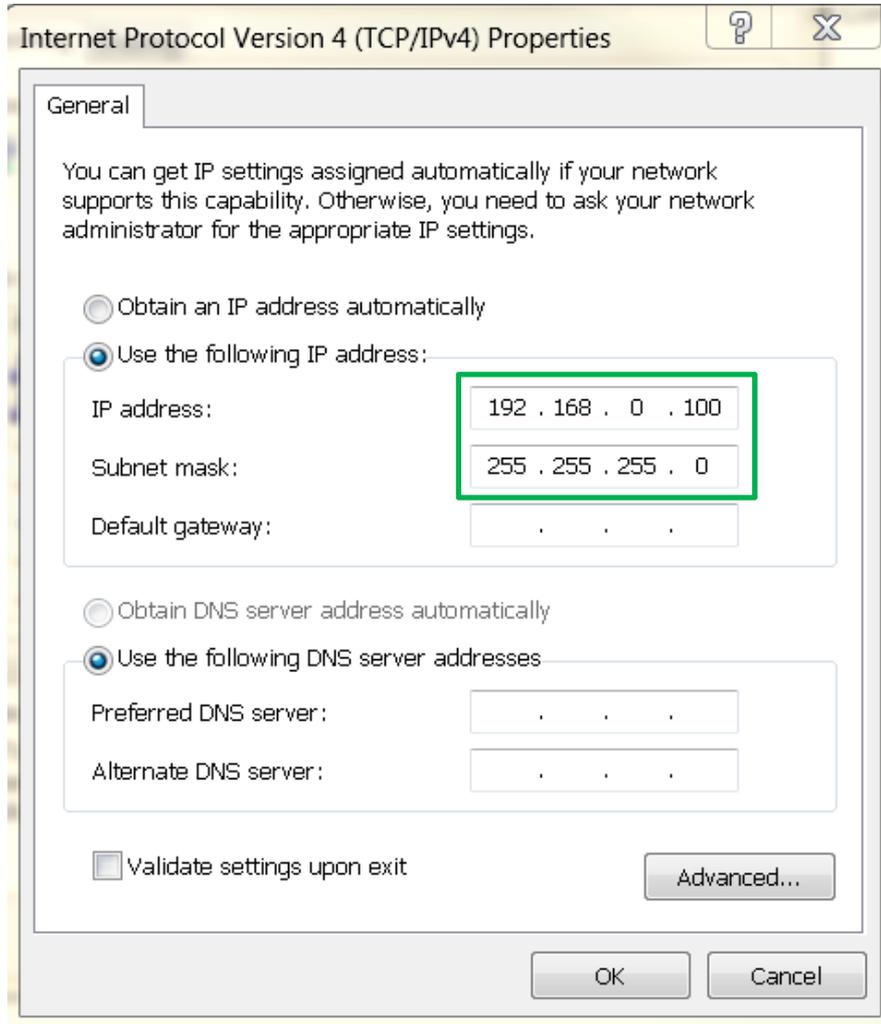
Name	L..	Position	Version	Description
X20CP3585			1.0.4.0	X20 CPU ATOM
Serial		IF1		Communication
ETH		IF2		Ethernet
PLK		IF3		POWERLINK
USB		IF4		
USB		IF5		
X2X		IF6		
X20IF1082-2		SS1	1.2.3.0	
PLK		IF1		
X20IF1082-2a		SS2	1.2.3.0	
PLK		IF1		
X20IF1082-2b		SS3	1.2.3.0	
PLK		IF1		

- I/O Mapping
- Configuration**
- Add Hardware Module
- Replace Hardware Module
- Cut
- Copy

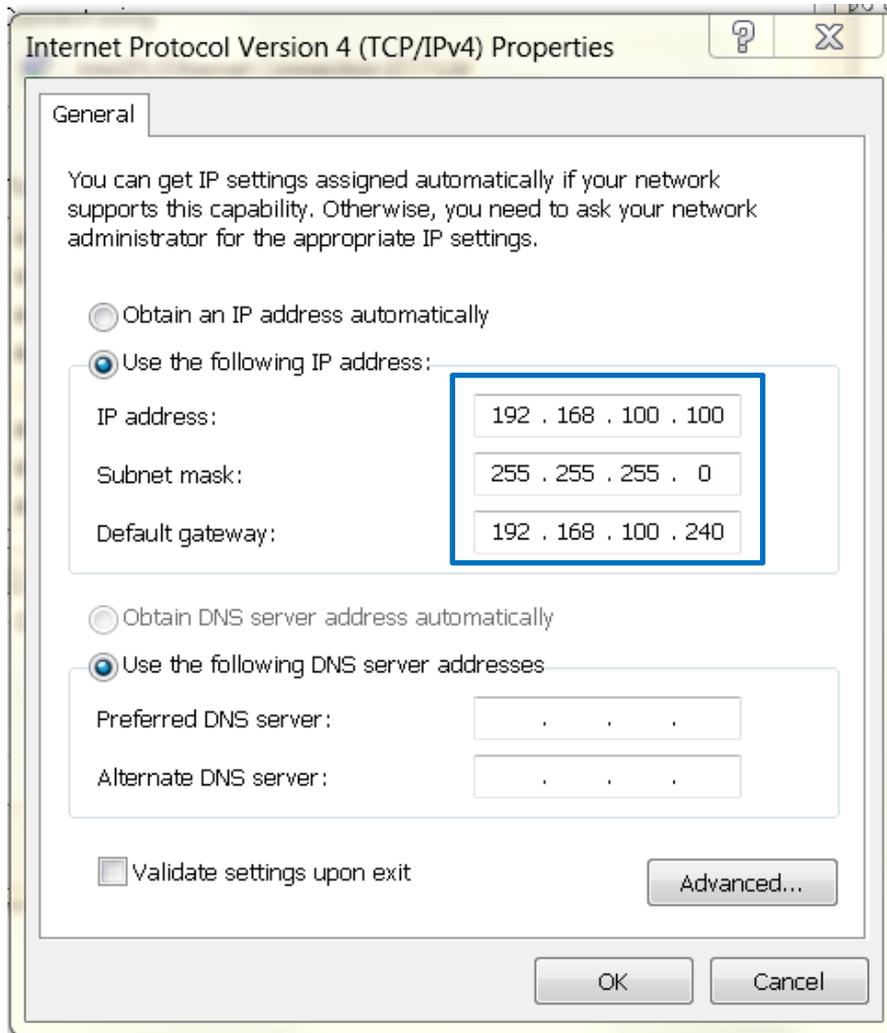
X20CP3585.IF3 [Configuration]

Name	Value
X20CP3585.IF3	
Module type	Type 4
Operating mode	POWERLINK V2
MTU size	300
Baud rate	100 MBit half duplex
POWERLINK parameters	
Activate POWERLINK communication	on
Device name	<InterfaceAddress>
Host names	
Redundant parameter	Single CPU Project
Host name	
Cycle time [μs]	2000
Multiplexing prescale	8
Mode	managing node
Advanced	
Node definition	set explicitly
Node number	240
Asynchronous timeout [μs]	25
Asynchronous Slots per cycle	1
Data transfer restricted to activation	off
Optimization	data throughput
Basic Ethernet in Service Mode	Basic Ethernet disabled
POWERLINK NAT subnet	192.168.105.0

PLC와 연결된 PC의 IP 설정

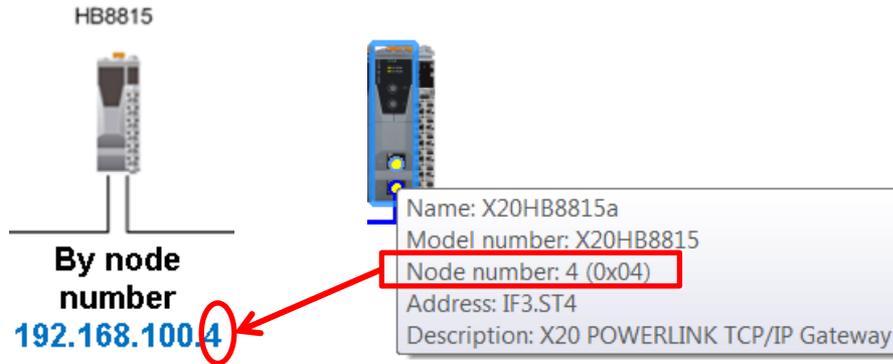


HB8815와 연결된 PC의 IP 설정





POWERLINK node number에 따른 자동 할당



POWERLINK 노드 넘버에 따라
설정됨.



Connect to 192.168.0.100



192.168.0.100
255.255.255.0

Route to 192.168.105.0
By gateway 192.168.0.10

192.168.0.10
255.255.255.0

192.168.100.240
Powerlink NAT
subnet:
192.168.105.0

By node
number
192.168.100.4

192.168.100.100
255.255.255.0

Default Gateway
192.168.100.240

```
C:\>route add 192.168.105.0 mask 255.255.255.0 192.168.0.10
```

Name	Value
X20CP3585.IF2	
Activate interface	on
Redundant parameter	Single CPU Project
Single CPU parameters	
Host name	
Baud rate	auto
Mode	enter IP address manually
IP address	192.168.0.10
Subnet Mask	255.255.255.0
INA parameters	
Activate online communication	on
Port number	11159
Redundant INA configuration	Single CPU

Name	Value
X20CP3585.IF3	
Module type	Type 4
Operating mode	POWERLINK V2
MTU size	300
Baud rate	100 MBit half duplex
POWERLINK parameters	
Activate POWERLINK communic...	on
Device name	<InterfaceAddress>
Host names	
Redundant parameter	Single CPU Project
Host name	
Cycle time [μs]	2000
Multiplexing prescale	8
Mode	managing node
Advanced	
Node definition	set explicitly
Node number	240
Asynchronous timeout [μs]	25
Asynchronous Slots per cycle	1
Data transfer restricted to activ...	off
Optimization	data throughput
Basic Ethernet in Service Mode	Basic Ethernet disabled
POWERLINK NAT subnet	192.168.105.0



```
C:\Windows\system32\cmd.exe
C:\>route add 192.168.105.0 mask 255.255.255.0 192.168.0.10
```

Cmd(명령 프롬프트) 창을 관리자 권한으로 실행

route add [접속할 IP] mask [접속할 IP의 subnet mask] [게이트웨이 IP]

예시

192.168.105.0 주소(subnet mask 255.255.255.0)에 192.168.0.10 게이트웨이를 통해 나가게 할 경우

```
route add 192.168.105.0 mask 255.255.255.0 192.168.0.10
```

옵션

- p: 설정 할 경우 서버 또는 컴퓨터에 전원이 꺼지고 나서도 유지됨.

Ex) *route add 192.168.105.0 mask 255.255.255.0 192.168.0.10 -p*

- Print: 전체 목록 확인

Ex) *route print*

- Tracert: 삭제 명령어

Ex) *tracert 192.168.105.0*



Automation Studio help 4.1.4.228

- GUID: e77124e3-c10d-4e83-b6ed-6b53bcf3eae5
- Location ID: 11.4.4.22.3.9

B&R Help Explorer - Automation Studio 4.1.4.228

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 - Fieldbus CPUs System modules

X20 hub system

- Brief information
- X20ET8819
- X20HB8815
 - General information
 - Order data
 - Technical data
 - Status LEDs
 - S/E LED

Order data

Model number	Short description	Figure
	X20 hub systems	
X20HB8815	X20 POWERLINK - TCP/IP gateway, expandable with active hub modules, 2x RJ45 connection	
	Mandatory accessory	
	System modules for X20 hub systems	
X20PS8002	X20 supply module for stand alone hub and compact link selector	
	System modules for bus controllers	
X20BB80	X20 bus base for X20 base module (BC, HB, ...) and X20 supply module, X20AC0SL1/X20AC0SR1 X20 end plates left and right included	
	System modules for expandable bus controllers	
X20BB81	X20 bus base with 1 expansion slot for X20 base module (BC, HB, ...) and an X20 auxiliary module (IF, HB, ...) and X20 power supply module, X20AC0SL1/X20AC0SR1 X20 end plates left and right included	
X20BB82	X20 bus base with 2 expansion slots for X20 base	