PERFECTION IN AUTOMATION
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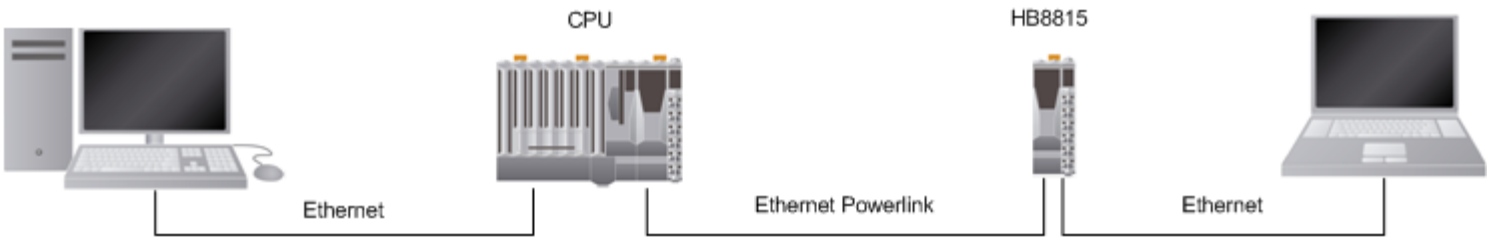
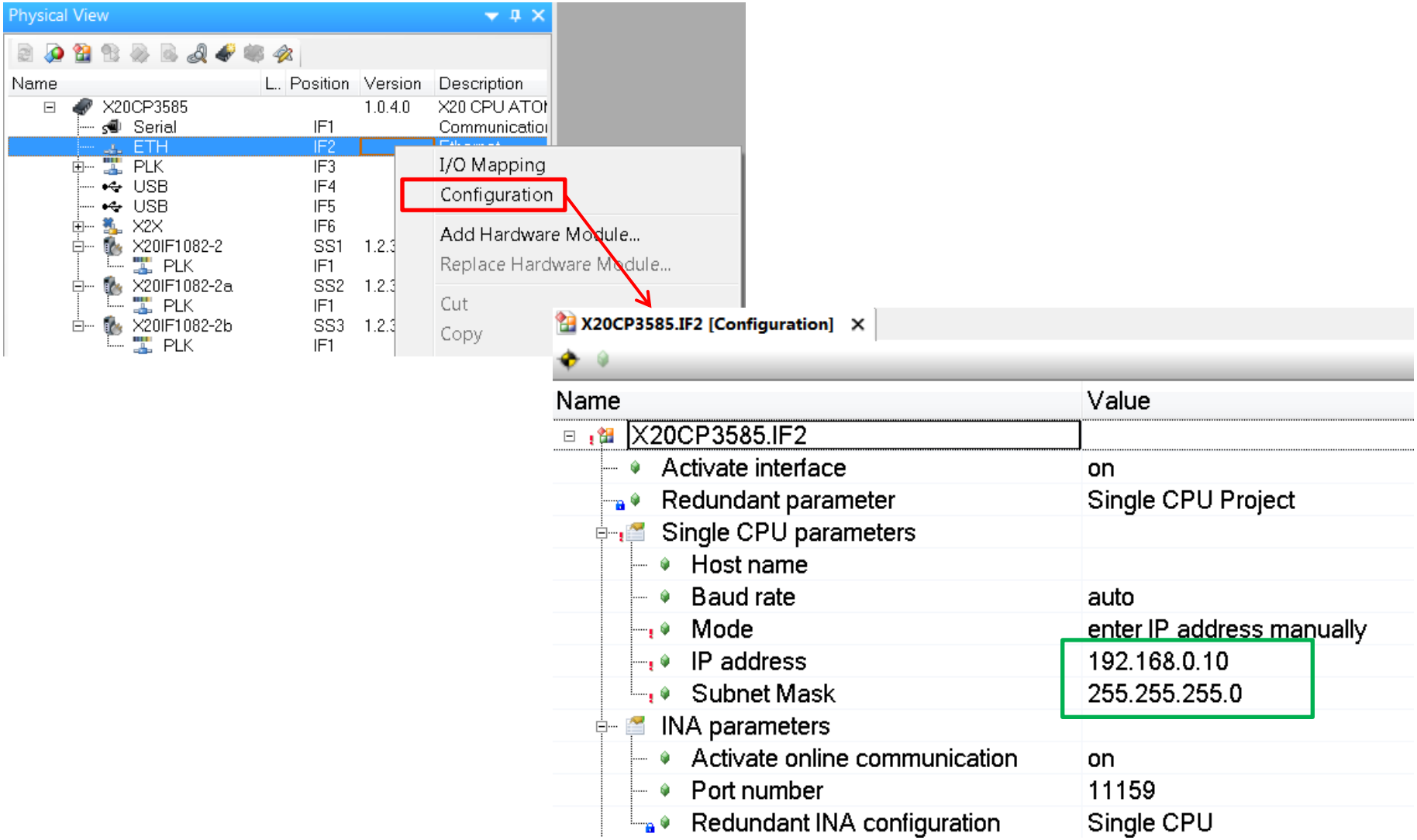
Ethernet Powerlink Gateway - Configuration example

HB8815 사용법

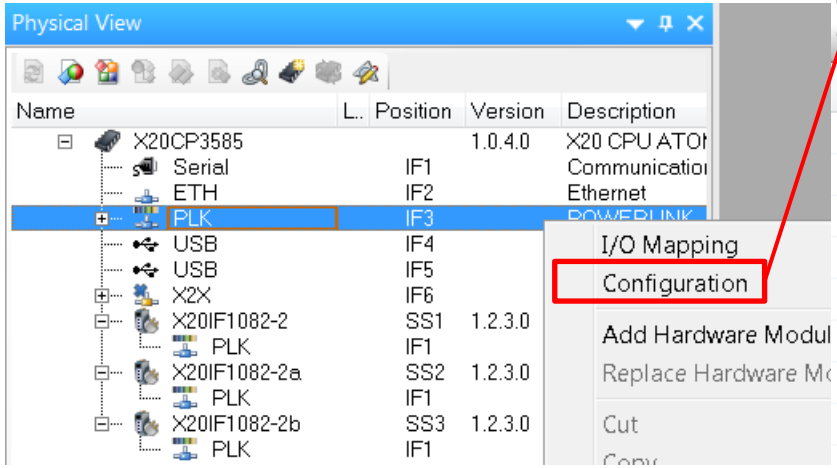
하드웨어 구성도

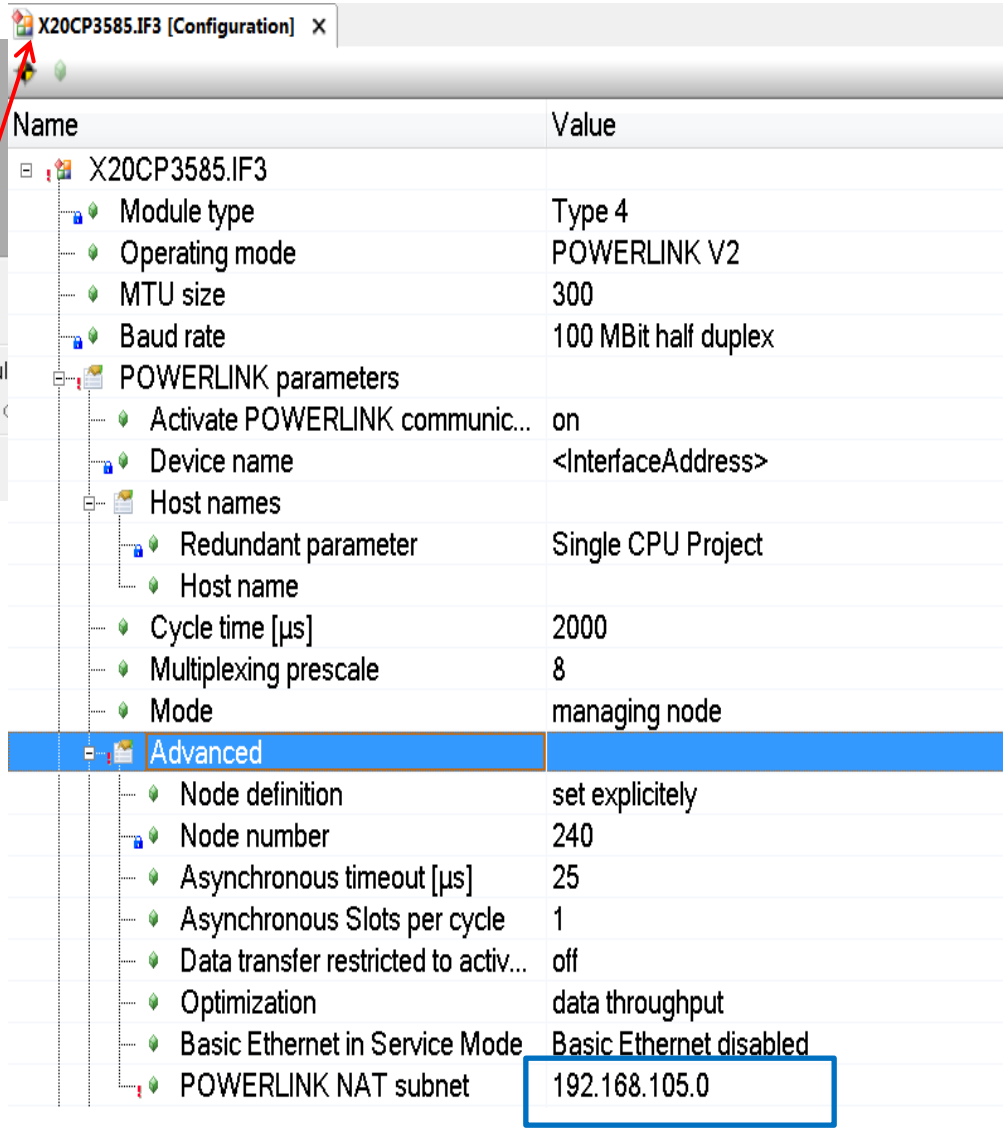


PLC의 IP 설정(ETH)

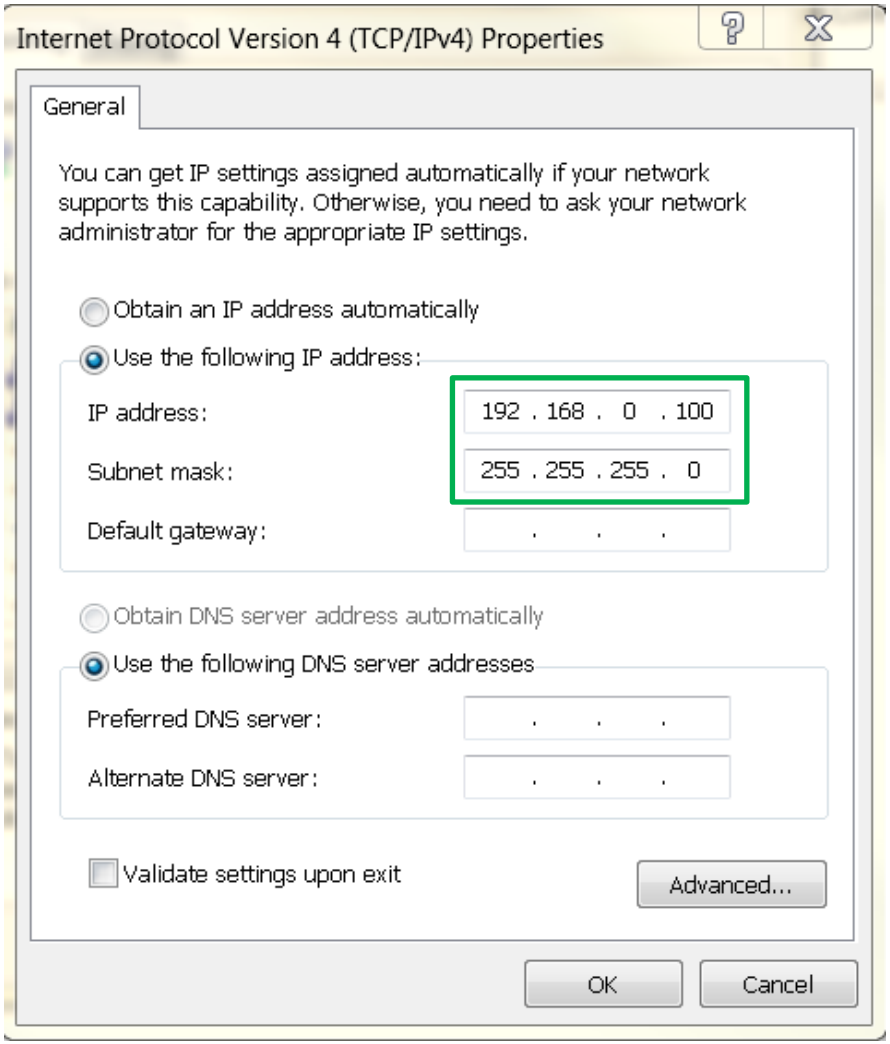


PLC의 POWERLINK(PLK) 설정

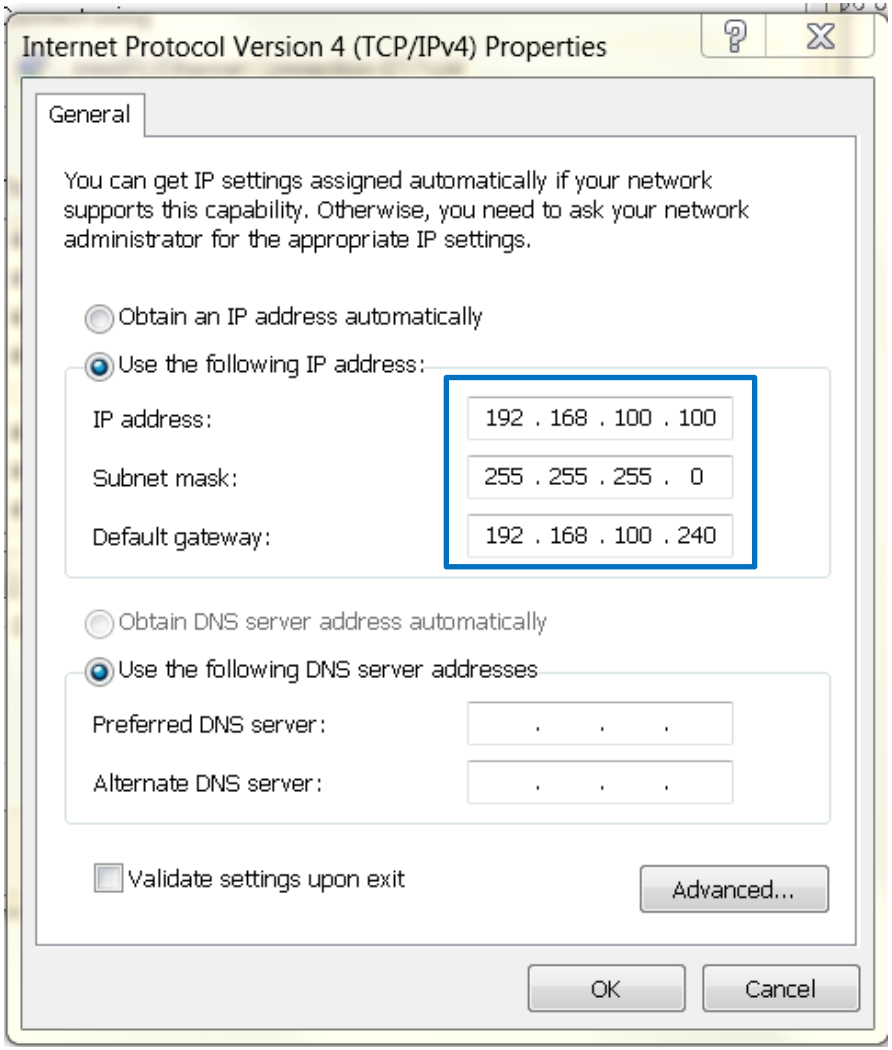




PLC와 연결된 PC의 IP 설정

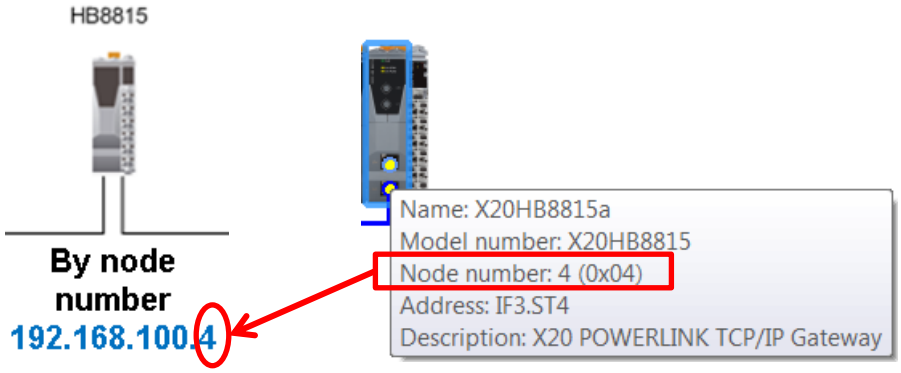


HB8815와 연결된 PC의 IP 설정



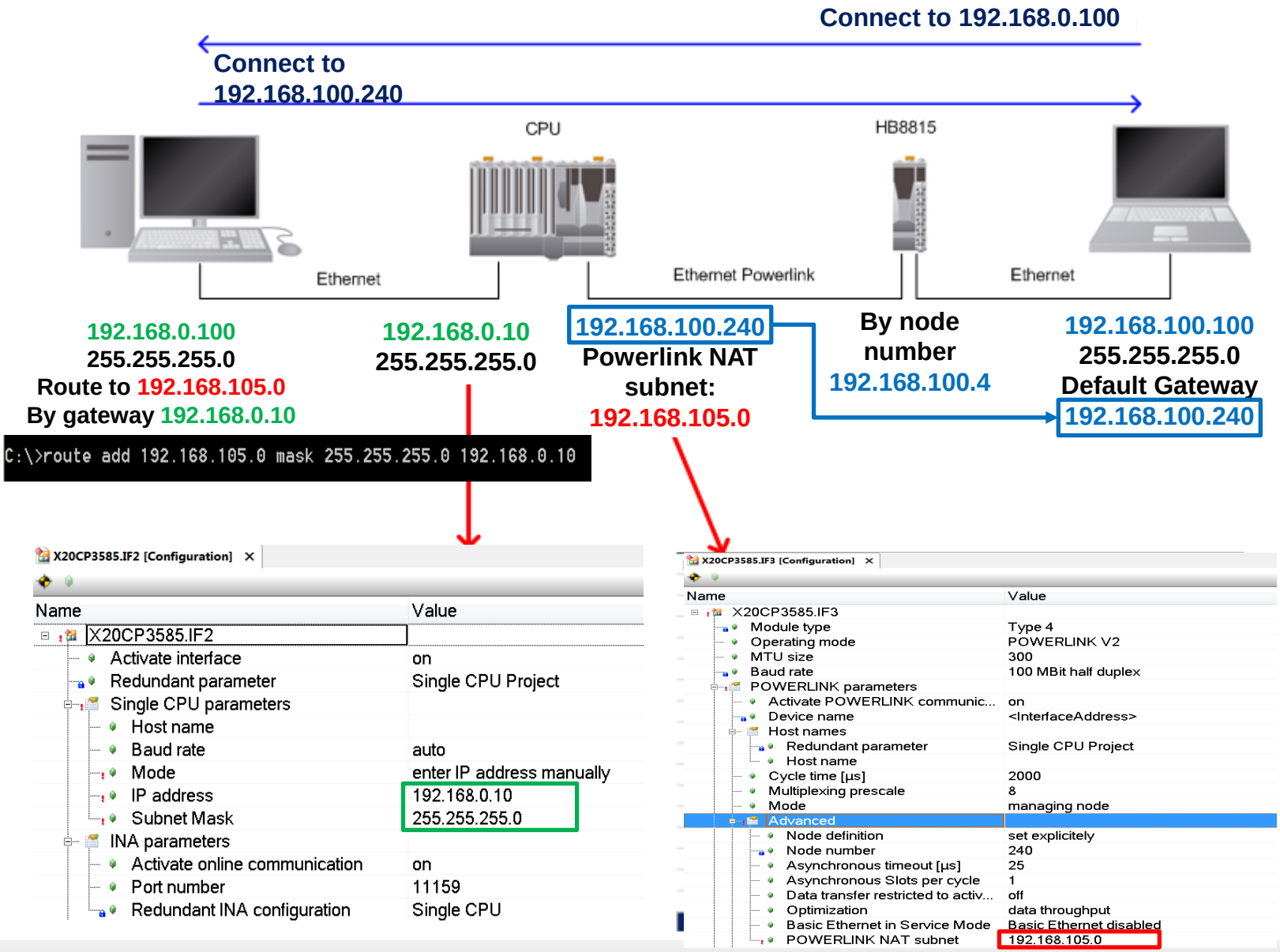
HB8815의 IP (자동)

POWERLINK node number에 따른 자동 할당

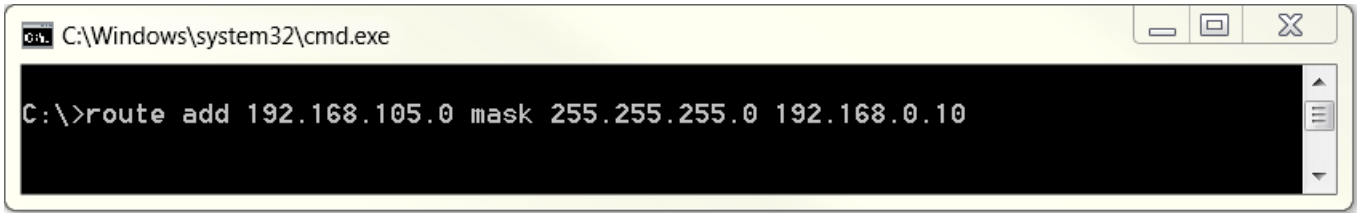


POWERLINK 노드 넘버에 따라 설정됨.

설정된 IP 관계도


Connect to 192.168.0.100
Connect to 192.168.100.240
CPU
HB8815
Ethernet
Ethernet Powerlink
Ethernet
192.168.0.100
255.255.255.0
Route to 192.168.105.0
By gateway 192.168.0.10
C:\>route add 192.168.105.0 mask 255.255.255.0 192.168.0.10
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
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
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 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 explicitely
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

기타 – route 설정



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*

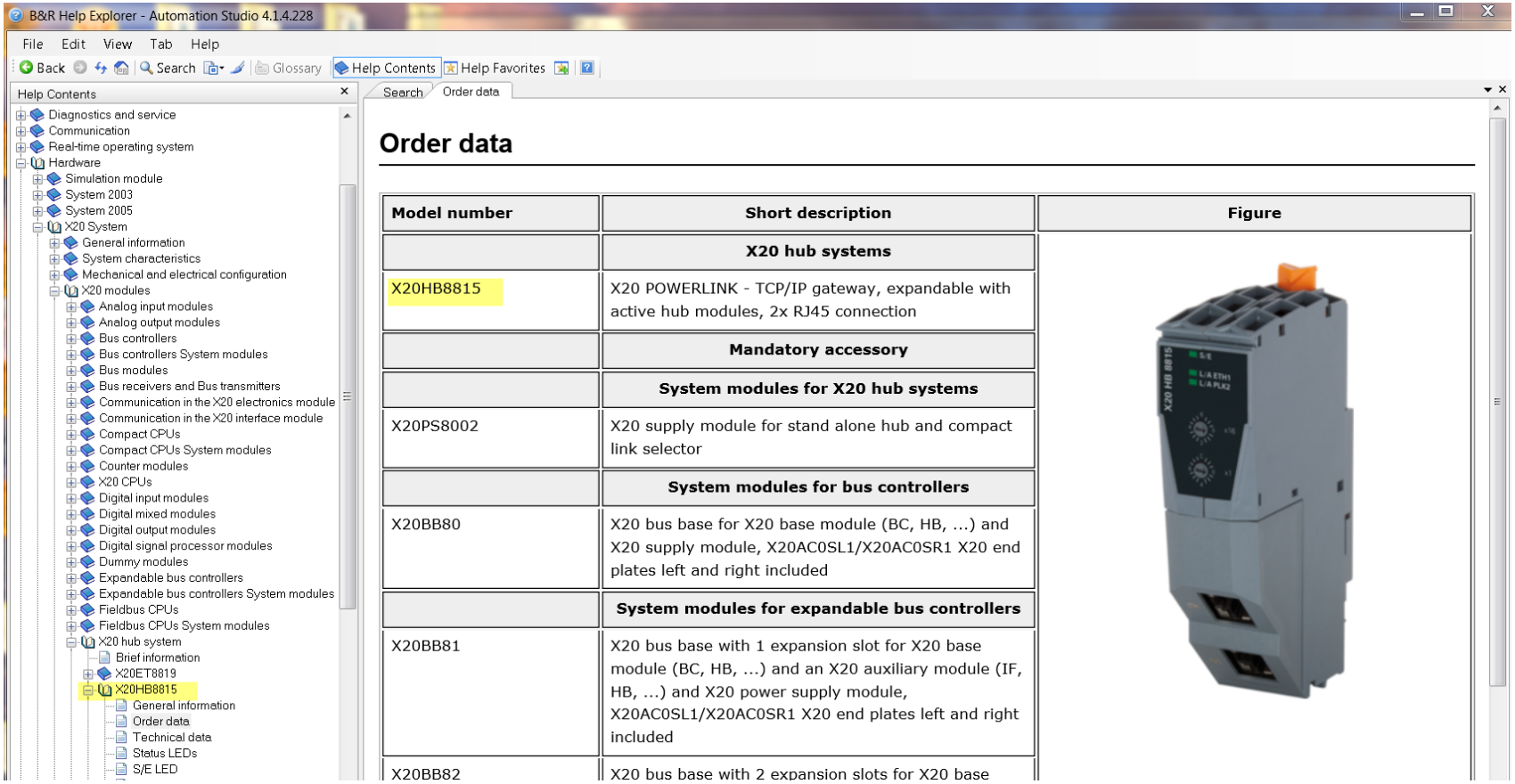
- Print: 전체 목록 확인

Ex) *route print*

- Tracert: 삭제 명령어

Ex) *tracert 192.168.105.0*

기타 – Help

Automation Studio help 4.1.4.228

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