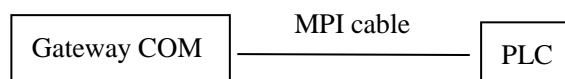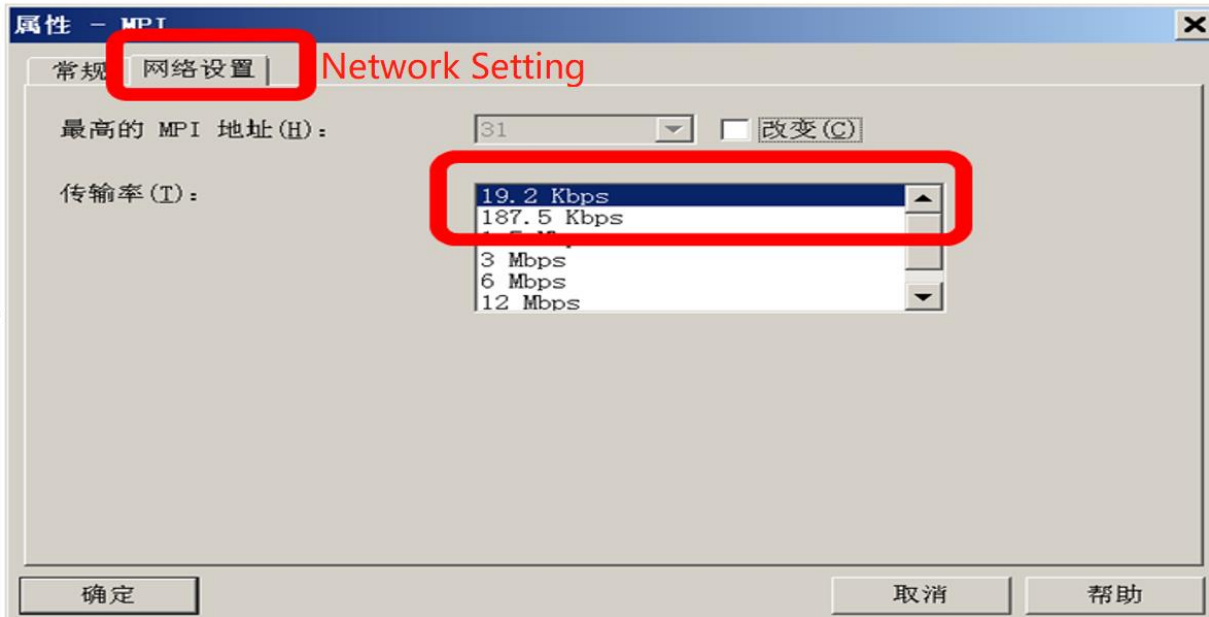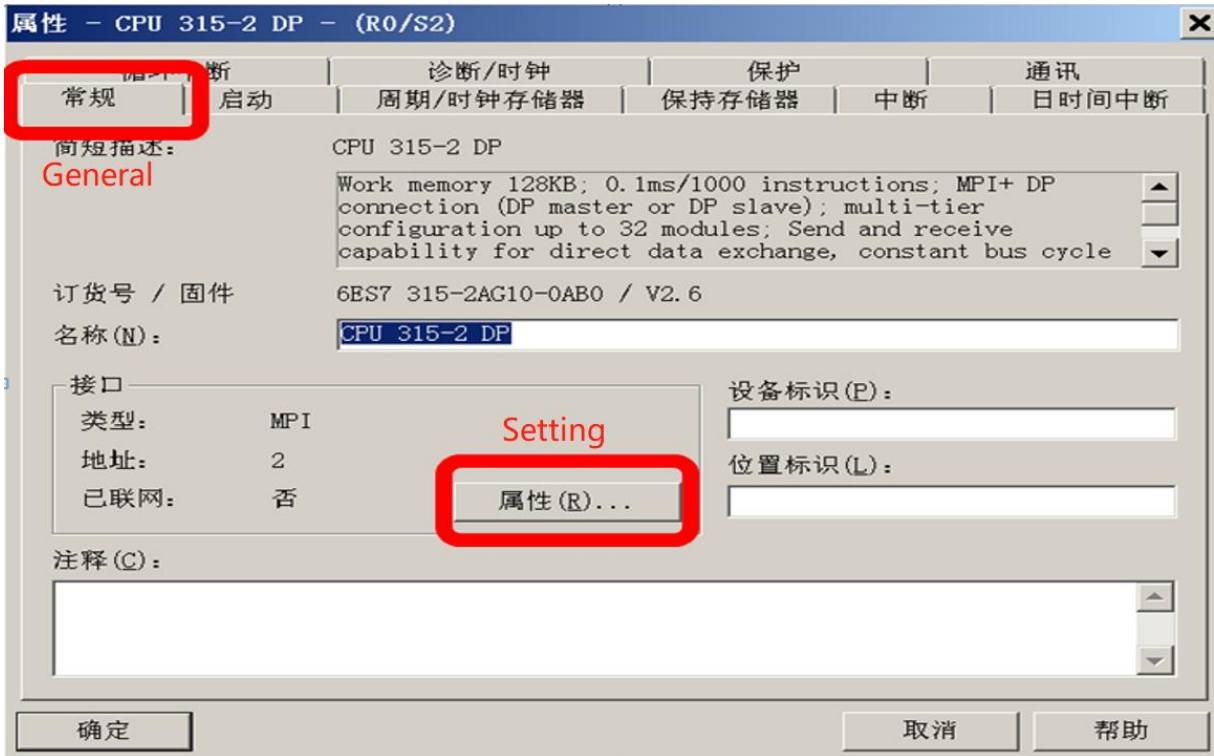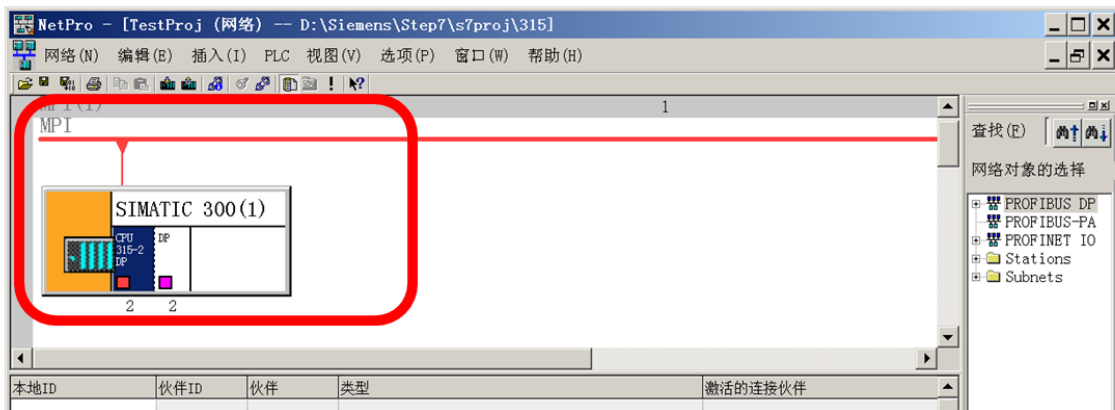# PLC Configuration

1. This driver bases on Siemens MPI protocal. It should use MPI serial cable to communicate.


```
┌──────────────────┐     MPI cable      ┌───────┐
│  Gateway COM     │────────────────────│  PLC  │
└──────────────────┘                    └───────┘
```
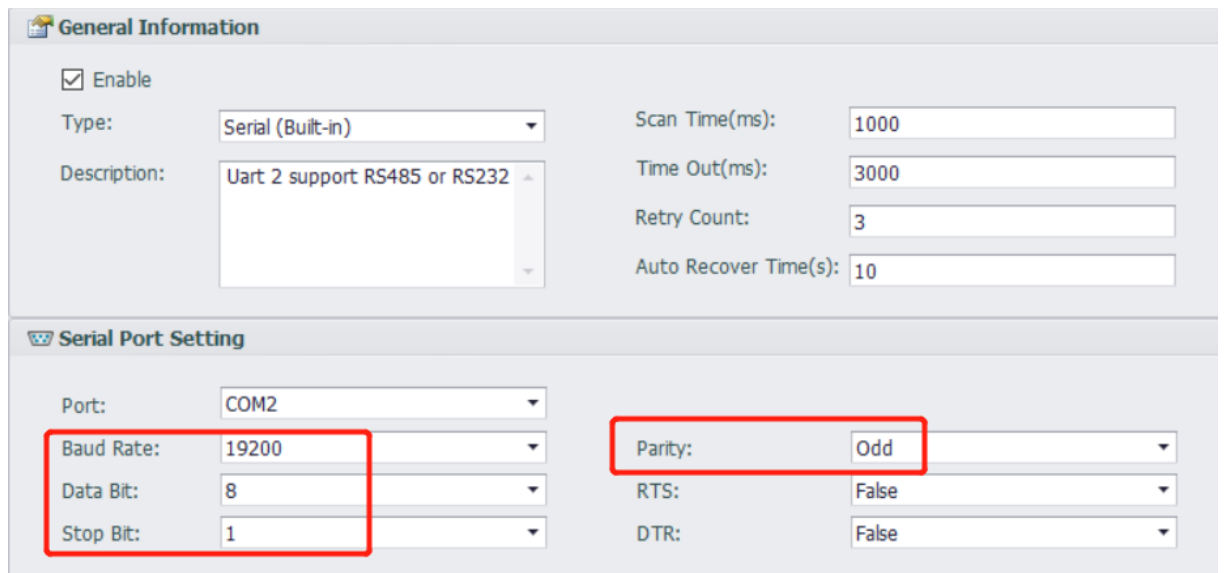
2. Configure the MPI address and baud rate.
   a. Add MPI subnet in CPU setting. The example baud rate is 19200, address is 2 by default.
   b. After adding MPI subnet, there will be a red line connection between the MPI interface and the MPI Network in NetPro.

ADVANTECH
Enabling an Intelligent Planet

属性 – CPU 315-2 DP – (R0/S2)

储 断	诊断/时钟	保护	通讯
常规	启动	周期/时钟存储器	保持存储器	中断	日时间中断

General

简短描述：　　　　CPU 315-2 DP

Work memory 128KB; 0.1ms/1000 instructions; MPI+ DP
connection (DP master or DP slave); multi-tier
configuration up to 32 modules; Send and receive
capability for direct data exchange, constant bus cycle

订货号 / 固件　　　6ES7 315-2AG10-0AB0 / V2.6

名称(N)：　　　　　CPU 315-2 DP

接口
　类型：　　　MPI　　　　　　　**Setting**
　地址：　　　2
　已联网：　　否　　　　　　属性(R)...

设备标识(P)：

位置标识(L)：

注释(C)：

确定　　　　　　　　　　　　　　取消　　　帮助

属性 – MPI

常规　网络设置　　**Network Setting**

最高的 MPI 地址(H)：　　31　　　　□ 改变(C)

传输率(T)：
　19.2 Kbps
　187.5 Kbps
　3 Mbps
　6 Mbps
　12 Mbps

确定　　　　　　　　　　　　　　取消　　　帮助

Edgelink Configuration

1) Make sure the COM jumper is RS-232
2) Add COM port.

3) Add Device

Device Type: Siemens S7-300
Unit Number: 2 (MPI address in PLC configuration)
TSAP: 03.02 by default.

4) Add Tags

The format of address is "DB block,Offset"
Below is the details:

1）**Analog Configuration**

Parameter	Address Template	Description	Conversion Code	Length

参数	地址模板	描述	转换代码（默认）	长度(bits)	最高量程（默认）	显示格式
DB	DB5,10	DB	Unsigned Integer	16	65535	5.0
DBB	DBB1,0	DB Byte Data		8	256	3.0
DBD	DBD1,0	DB DWord Data		32	4,294,967,296	10.0
DBW	DBW1,0	DB Word Data		16	65535	5.0
IB	IB000	Input Byte		8	256	3.0
ID	ID000	Input Dword		32	4,294,967,296	10.0
IW	IW000	Input Word		16	65535	5.0
MB	MB001	Internal Byte		8	256	3.0
MD	MD001	Internal Word		24	1,048,576	7.0
MW	MW001	Internal Dword		16	65535	5.0
PIB	PIB000	Extend Input Byte		8	256	3.0
PID	PID000	Extend Input Dword		32	4,294,967,296	10.0
PIW	PIW000	Extend Input Word		16	65535	5.0
QB	QB000	Output Byte		8	256	3.0
QD	QD000	Output Dword		32	4,294,967,296	10.0
QW	QW000	Output Word		16	65535	5.0

Example：There is a variable "abc" in DB1 which is int and the offset is 8. So the address should be DBW1,8.

Analog Example Table：

S7 PLC Address	Edgelink IO Configuration			
Register Address	Address	Start bit	Length	Conversion Code
DB28.DBW2	DBW28,2	0	16	Unsigned Integer
DB12.DBD86	DBD12,86	0	32	Unsigned Integer
DB2.DBB1	DBB2,1	0	8	Unsigned Integer
DB2.DBW64　(Float)	DBW2,64	0	32	Real

2）**Discrete Configuration**

Parameter	Address Template	Description	Conversion Code	Length		
参数	地址模板	描述	转换代码（默认）	长度 (bits)		
DBX	DBX1,0	DB Bit	Unsigned Integer	1		
IX	IX000	Input		1		
MX	MX000	Internal Bit		1		
QX	QX000	Output		1		

Discrete Example Table:

S7 PLC Address	Edgelink IO Configuration			
Register Address	Address	Start bit	Length	Conversion Code
I0001.2	IX0001	2	1	Unsigned Integer
I0003.5	IX0003	5	1	Unsigned Integer
Q1003.2	QX1003	2	1	Unsigned Integer