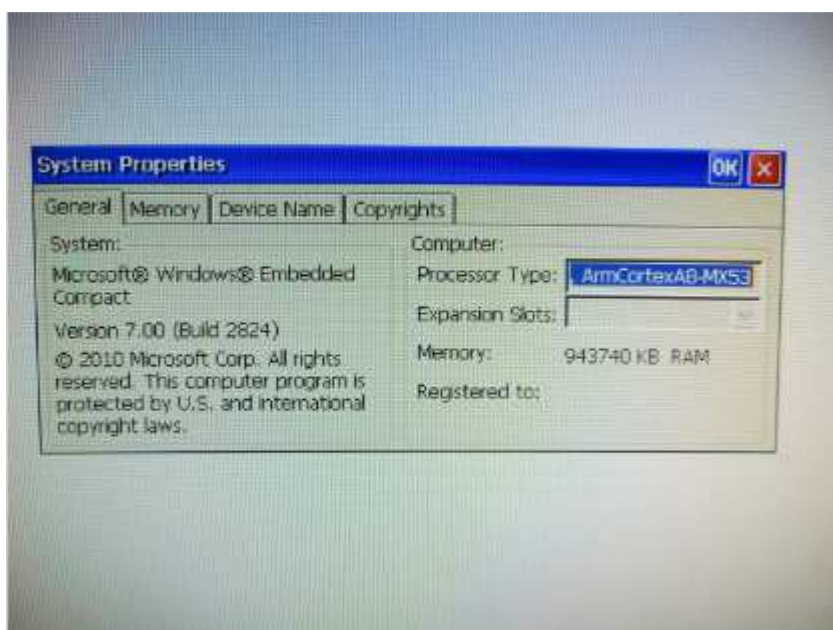
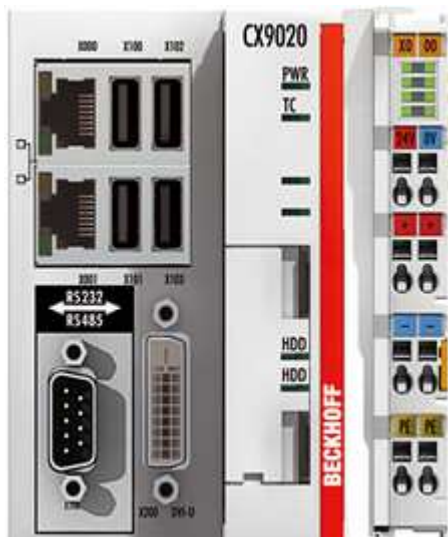


How to connect with the Beckhoff CX9020

Preface

The driver supports connect to “Beckhoff TwinCAT 2” device and “Beckhoff Embedded PC” by “ADS” protocol.

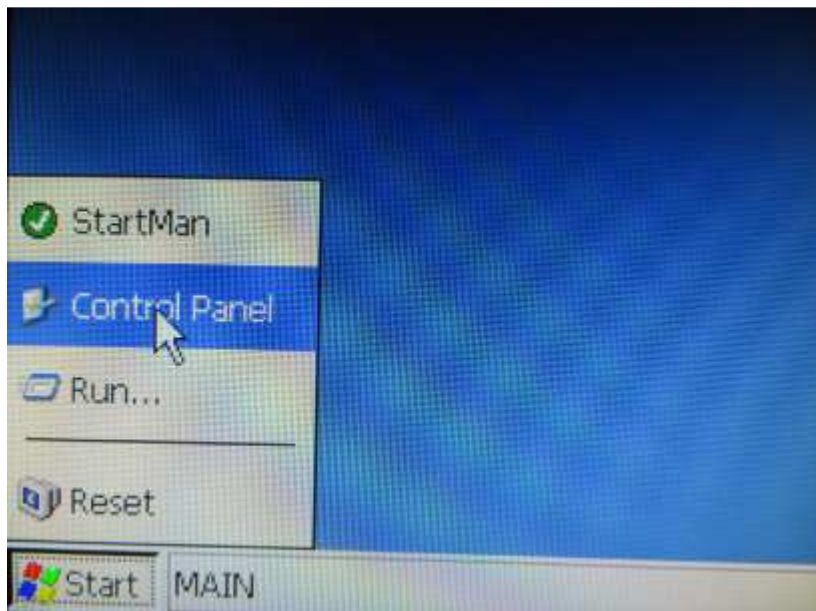
CX9020 Embedded Controls



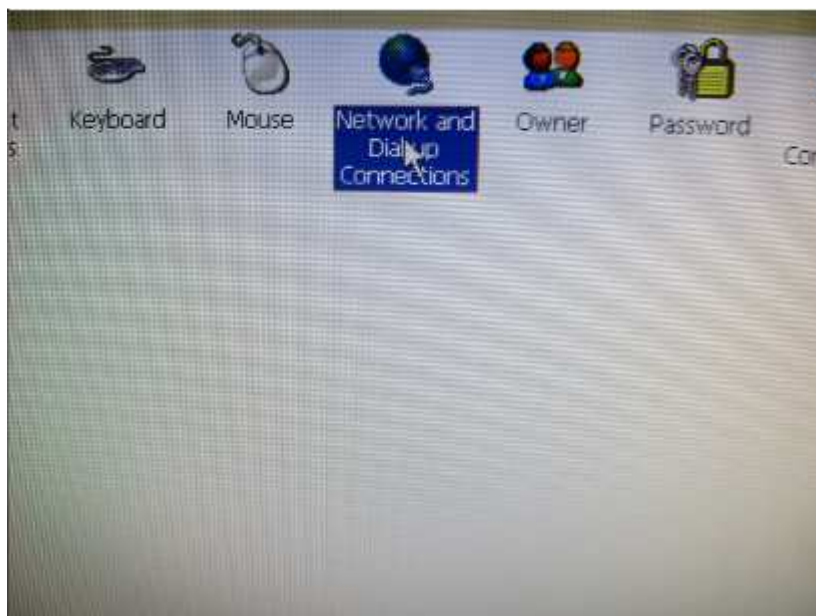
1) Settings for communication parameters of the Panel:

Connect to the Panel by DVI interface, then to setting the Ethernet parameter on the WinCE 7.0.

Step 1: Click "Start"---"Control Panel"



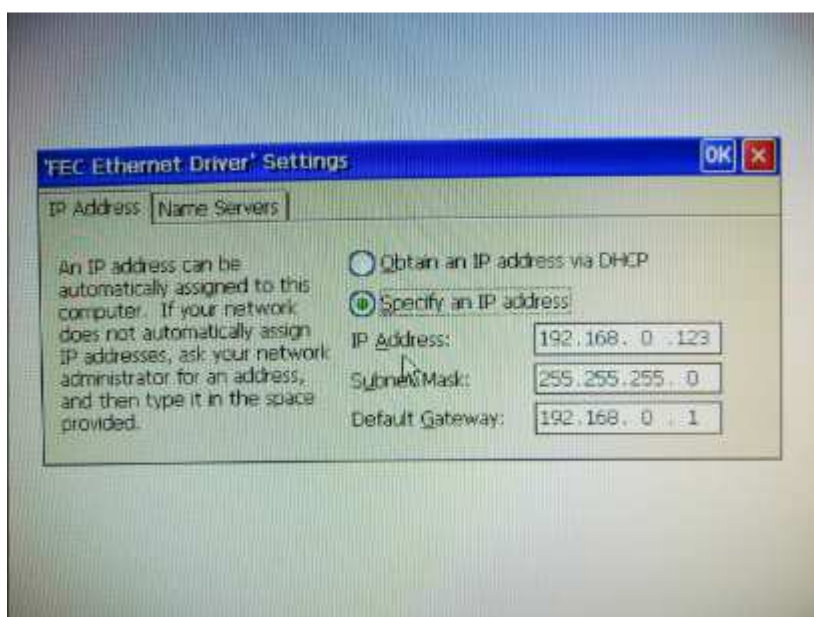
Setp 2: Double click the "Network and Dial-up Connection".



Step 3: Click the "FECI".

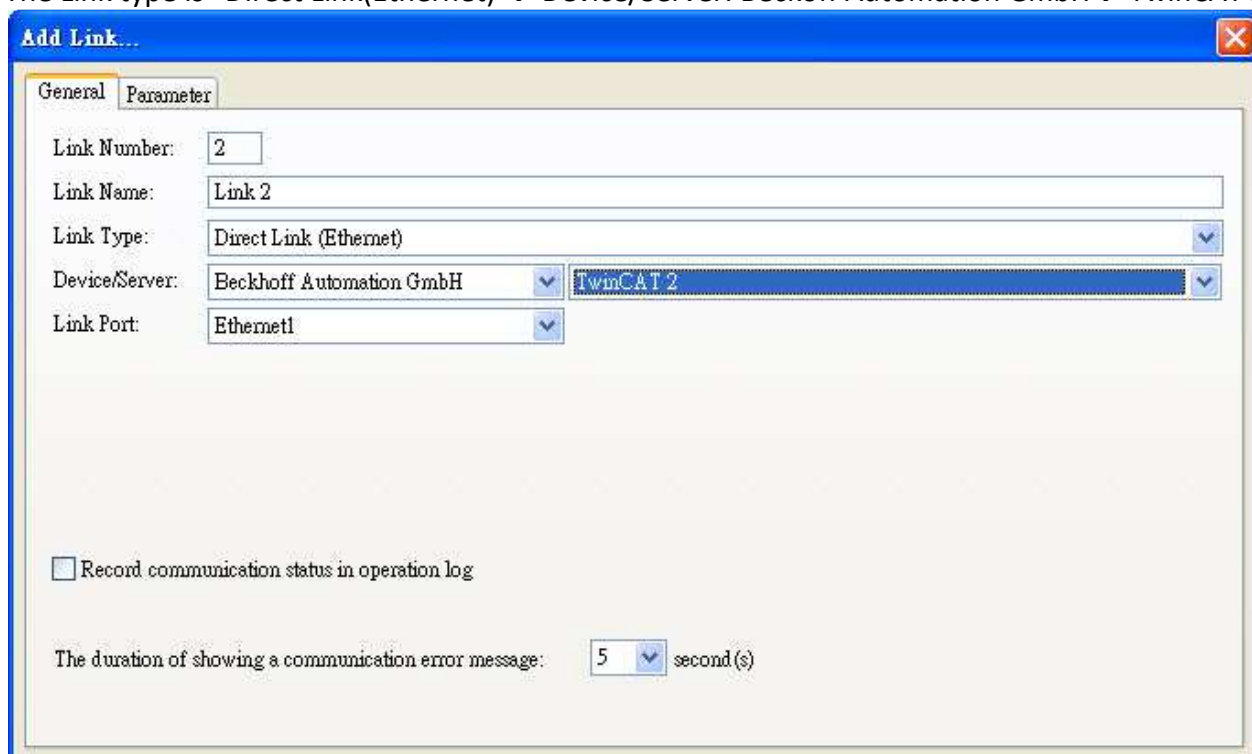


Step 4: Setting to the "FEC Ethernet Driver Settings", the "Obtain an IP address via DHCP" option and "Specify an IP address" option both can be used.



2)HMI settings:

The Link type is "Direct Link(Ethernet) → Device/Server: Beckhoff Automation GmbH→ TwinCAT 2



Add Link...

General Parameter

Link Number: 2

Link Name: Link 2

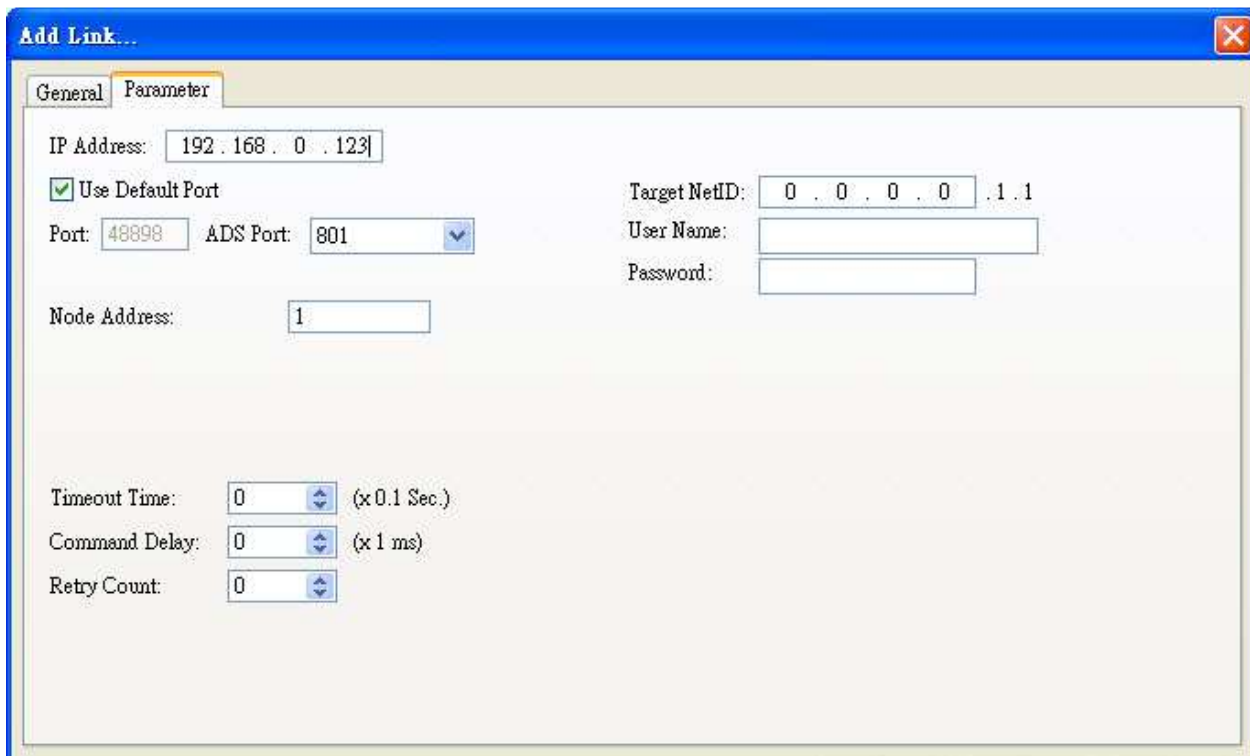
Link Type: Direct Link (Ethernet)

Device/Server: Beckhoff Automation GmbH TwinCAT 2

Link Port: Ethernet1

☐ Record communication status in operation log

The duration of showing a communication error message: 5 second(s)



Add Link...

General Parameter

IP Address: 192.168.0.123

☒ Use Default Port

Port: 48898 ADS Port: 801

Node Address: 1

Target NetID: 0.0.0.0.1.1

User Name:

Password:

Timeout Time: 0 (x 0.1 Sec.)

Command Delay: 0 (x 1 ms)

Retry Count: 0

- A. The “ADS” port is must be same with the PLC settings, the default value is “801”.
- B. The “User name” and “password” is used for to log-in to PLC, so also must be same with the PLC settings, the “User name” maximum size is 11 words and “Password” maximum size is 5 words.

PLC address:

Bit device:

Bit Device (TwinCAT 2)

Bit Device	Address Range	Block Addr...	Comment
IXn.b	n: 0~65535; b: 0~7	b=0	
QXn.b	n: 0~65535; b: 0~7	b=0	
MXn.b	n: 0~65535; b: 0~7	b=0	

Close

Word device:

Word Device (TwinCAT 2)			
Word Device	Address Range	Size	Comment
IBn	n: 0~65535	Byte	
QBn	n: 0~65535	Byte	
MBn	n: 0~65535	Byte	
IWn	n: 0~65535; n=2q	Word	
QWn	n: 0~65535; n=2q	Word	
MWn	n: 0~65535; n=2q	Word	
IDn	n: 0~65535; n=4q	32 bits	
QDn	n: 0~65535; n=4q	32 bits	
MDn	n: 0~65535; n=4q	32 bits	

Close