Beckhoff TwinCAT 3 ADS/AMS (Ethernet)

Supported Series:

CX8000,CX90x0,CX1010,CP62xx,CX5010,CP62xx,CX1020,CX2020,CPxxxx,C6920,CX2030,CPxxxx,CP6930,CX2040,C65xx,C69xx.

Website: http://infosys.beckhoff.com/

HMI Settings:

Parameters	Recommended	Options	Notes
PLC type	Beckhoff TwinCAT 3 ADS/AMS (Ethernet)		
PLC I/F	Ethernet		
Port no.	48898		
ADS port	851	851,852,853,854	

Device Address:

Bit/Word	Device	Format	Range	Memo
B	IX	DDDDDdd	0 ~ 6553515	*Note
B	QX	DDDDDdd	0 ~ 6553515	*Note
B	MX	DDDDDdd	0 ~ 6553515	
B	IX_Bit	DDDDDo	0 ~ 65537	*Note
B	QX_Bit	DDDDDo	0 ~ 65537	*Note
B	MX_Bit	DDDDDo	0 ~ 65537	
W	IW	OOOOOO	0 ~ 65535	*Note
W	QW	DDDDD	0 ~ 65535	*Note
W	MW	DDDDD	0 ~ 65535	
W	ID	DDDDD	0 ~ 65535	*Note
W	QD	DDDDD	0 ~ 65535	*Note
W	MD	DDDDD	0 ~ 65535	

Note: The I addresses and Q addresses are mapped to M addresses. To use I addresses or Q addresses, please use Beckhoff TwinCAT PLC – Free Tag Names (Ethernet) driver instead.

TwinCAT 3 PLC Settings:

To connect Beckhoff devices, HMI's information must be registered to PLC first. The following steps describe how to register HMI's information into Beckhoff devices.
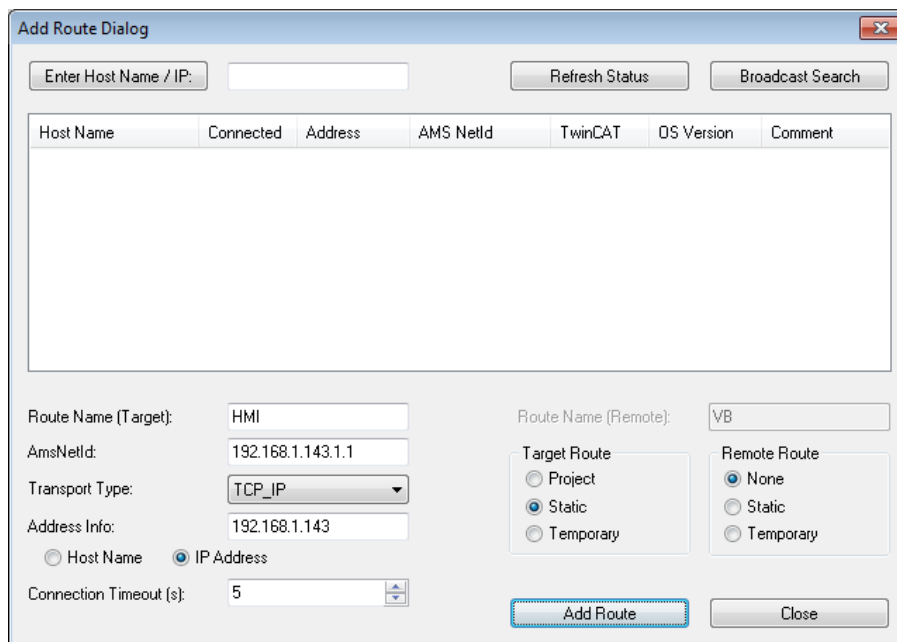
Step1.

Double click [SYSTEM], and then select [Choose Target System]. Select the device you are connecting.

Step2.

Expend the SYSTEM layer, select [Routes]. Click [Add] to add HMI information as below.

Name: A user-defined name
AMS Net ID: must be HMI's IP address + ".1.1"
Transport Type: TCP_IP
Address: HMI's IP address
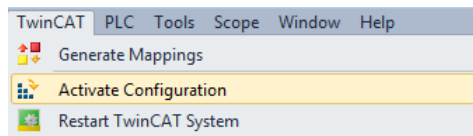
Step3.

If added successfully, you will see a new item in Remote Computers. Click [Apply] to apply the configuration.

Step4.

Select [TwinCAT] menu, and then select [Activate Configuration] to apply the new settings.

Wiring Diagram:

Ethernet cable: