

4 Module Configuration

4.1 CPU module

Please follow the steps to configure the AX70 motion controller real time and IP address.

Step 1 Create a controller Cfg project.

Add the library file **CmpPlcCfg_1.0.0.2.library** required for this module to create a standard.

Step 2 Define and use variables.

Table 4-1 Variable definition

Variable	Type	Function	Remarks
setEnable	INPUT	BOOL	Time setting function 0: Disabled 1: Enabled
getEnable		BOOL	Time reading function 0: Disabled 1: Enabled
inDate		ARRAY OF UINT	Date to be entered in format: year month day E.g. 2018 12 26
inTime		ARRAY OF UINT	Time to be entered in format: hour minute second E.g. 14 48 56
rEnable		BOOL	IP settings function 0: Disabled 1: Enabled
wEnable		BOOL	IP reading function 0: Disabled 1: Enabled
new_IP		STRING	Set a new IP E.g. 192.168.1.16
new_netmask		STRING	Set a new subnet mask E.g. 255. 255. 255.0
setDone	OUTPUT	BOOL	Completion mark of time setting 0: The execution of commands is in progress. 1: The execution of commands is completed.
getDone		BOOL	Completion mark of time obtaining 0: The execution of commands is in progress. 1: The execution of commands is completed.
setError		INT	Error sign See Controller Cfg error code table
ErrorID		INT	Error code See Controller Cfg error code table
outTime		ARRAY OF UINT	Read the native hour, minute and second information. E.g. 14 48 56
outDate		ARRAY OF UINT	Read the native year, month and day information. E.g. 2018 12 26

Variable	Type	Function	Remarks
Done	BOOL	Completion mark	0: The execution of commands is in progress. 1: The execution of commands is completed.
read_IP		IP read	E.g. 192.168.1.16
read_netmask		Subnet mask read	E.g. 255. 255. 255.0

Table 4-2 AX70 native time configuration

Variable	Function	Remarks
setEnabled	Time setting function	0: Disabled 1: Enabled
getEnabled	Time reading function	0: Disabled 1: Enabled
inDate	Date to be entered in format: year month day	E.g. 2018 12 16
inTime	Time to be entered in format: hour minute second	E.g. 14 48 56

According to the time array in format inTime and inDate, where inTime[0] is hour, inTime[1] is minute, inTime[2] is second, inDate[0] is year, inDate[1] is month, inDate[2] is day, enter the time (all inputs are required). After the settings, enable setEnabled to set the above time to AX70 current time.

Enable getEnabled to get the real time of AX70, which is displayed in outTime and outDate arrays.

Table 4-3 AX70 local IP configuration

Variable	Function	Remarks
rEnable	IP setting function	0: Disabled 1: Enabled
wEnable	IP reading function	0: Disabled 1: Enabled
new_IP	Set a new IP	E.g. 192.168.1.16
new_netmask	Set a new subnet mask	E.g. 255. 255. 255.0

Enter the IP and subnet mask in the required format, and then enable wEnable to set the above IP or subnet mask to the current IP or subnet mask of AX70 after entering the setup time.

Note: The USB virtual network port is independent of the EtherNET network port, and the IP or subnet mask modified by CmpPlcCfg_1.0.0.2.library is still the IP or subnet mask of the EtherNET network port when the device is connected with a USB. After the IP or subnet mask modification, it will take some time for the AX70 to connect to Invtmatic Studio on the PC.

Enable rEnable to get the IP address and subnet mask of the controller, which are displayed in the read_IP and read_netmask strings respectively.