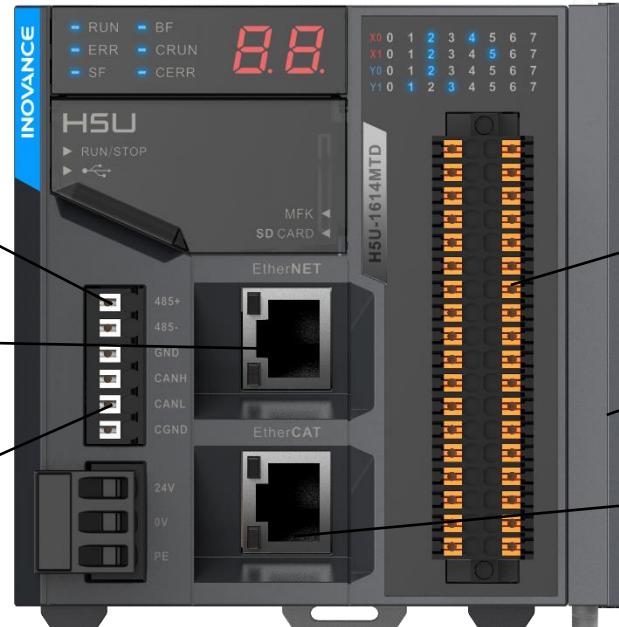


INOVANCE

Introduction of H5U
Marx RAN , 5 Nov 2021



Hardware Configuration



RS485 port

Ethernet port:
Modbus TCP
Socket instruction

CAN port:
CANlink,
CANopen

Built-in

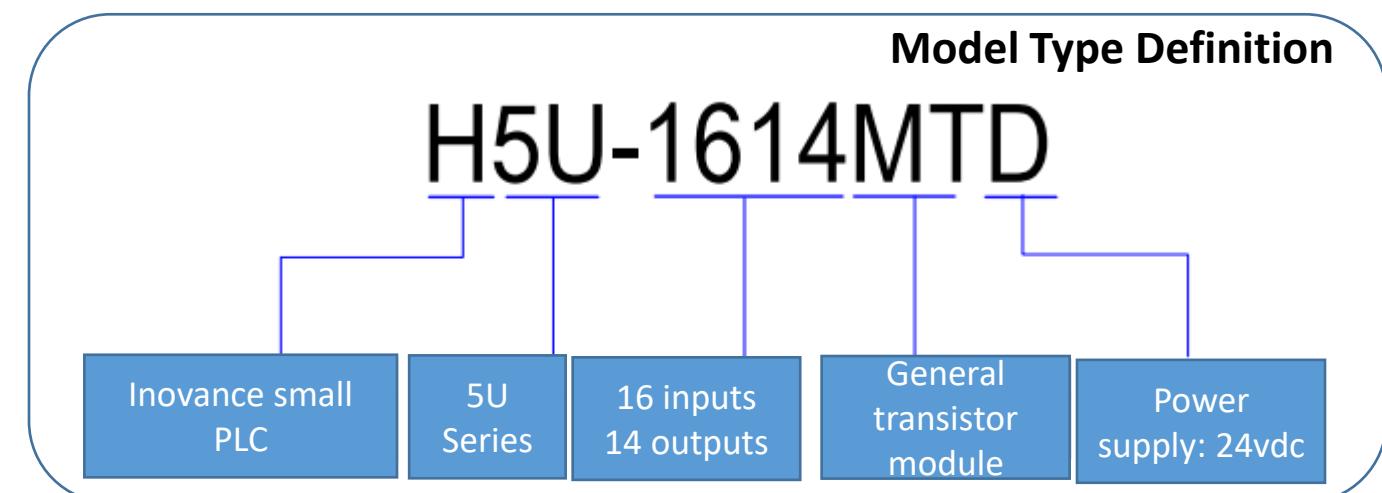
16 DI (with 4 x 200kHz channels), support **source/sink** input type
14 DO (with 4 x 200kHz channels), only support **NPN** output type

16 extension modules
(Local Bus)

72
EtherCAT slave stations

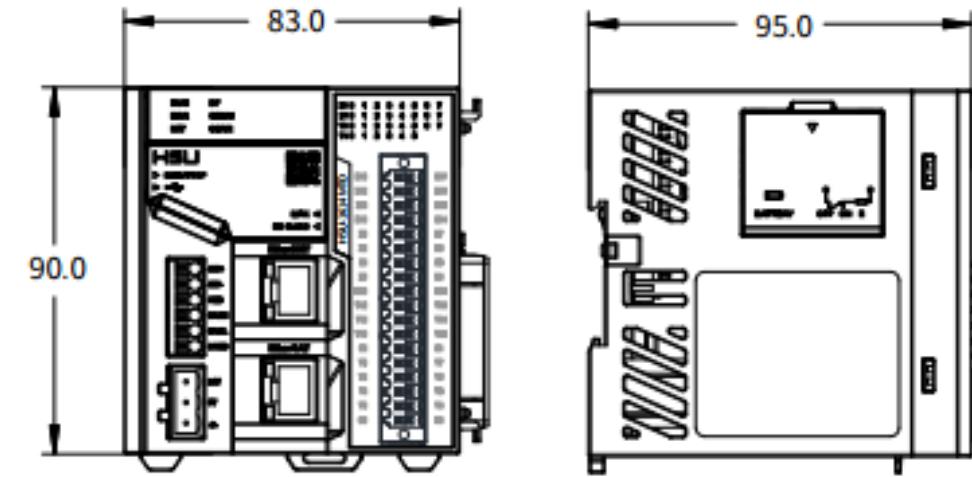
Models:

- H5U-1614MTD**: supports 32 axes
- H5U-1614MTD-A16**: supports 16 axes
- H5U-1614MTD-A8**: supports 8 axes
- H5U-1614MTD-A8S**: supports 8 axes (without CAN/CAM)



Hardware Configuration

H5U	Specifications
Storage	200K program storage, 2MByte custom variable storage
Axes	EtherCAT: 32 axes Local Pulse: 4 axes
Serial port	1 x RS485
CAN port	CANlink, CANopen
Fast input	4 channel 200K
Fast output	4 channel 200K
Extension modules	16 Up to 72 EtherCAT stations (including Servos)
Program Language	LD, SFC, supports FB/FC (LD)
Ethernet	Modbus TCP, Socket, program upload/download Supports EtherCAT
USB、SD card	Program upload/download and firmware upgrade (only SD card)
Structure	Compact and small size: 83 x 90 x 95 (mm)



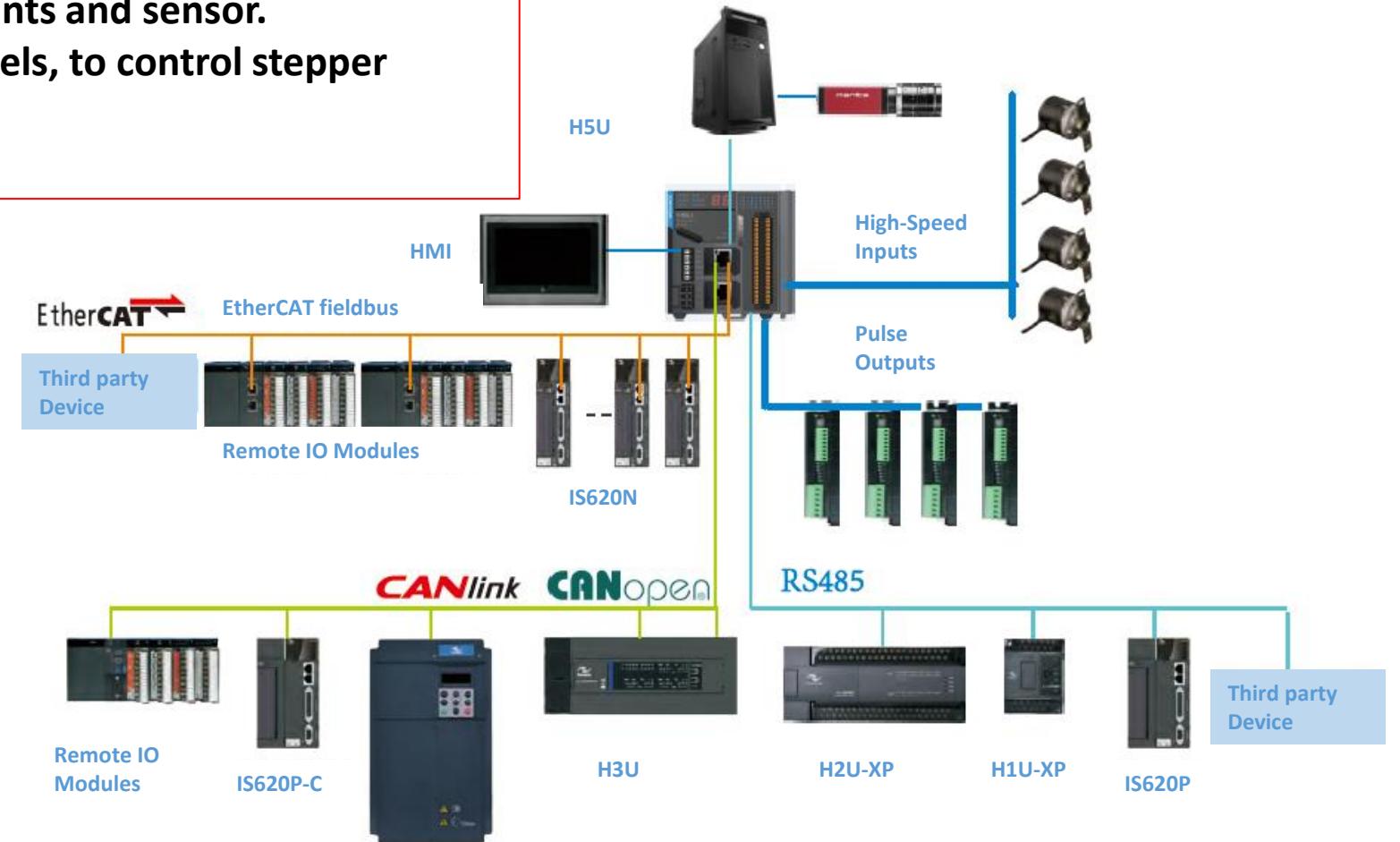
H5U Features

- EtherCAT: 32 axes PTP control, 72 slave stations, support interpolated motion and electrical CAM function
- Axis control function conforms to PLCopen specifications.
- The local pulse and the EtherCAT axis share same motion control commands.



H5U Features

- Able to control servo drive via EtherCAT.
- Able to control servo or AC drive via CAN (CANopen, CANlink).
- RS485 able to connect to instruments and sensor.
- 4 x high speed pulse output channels, to control stepper motors.
- Ethernet interface.

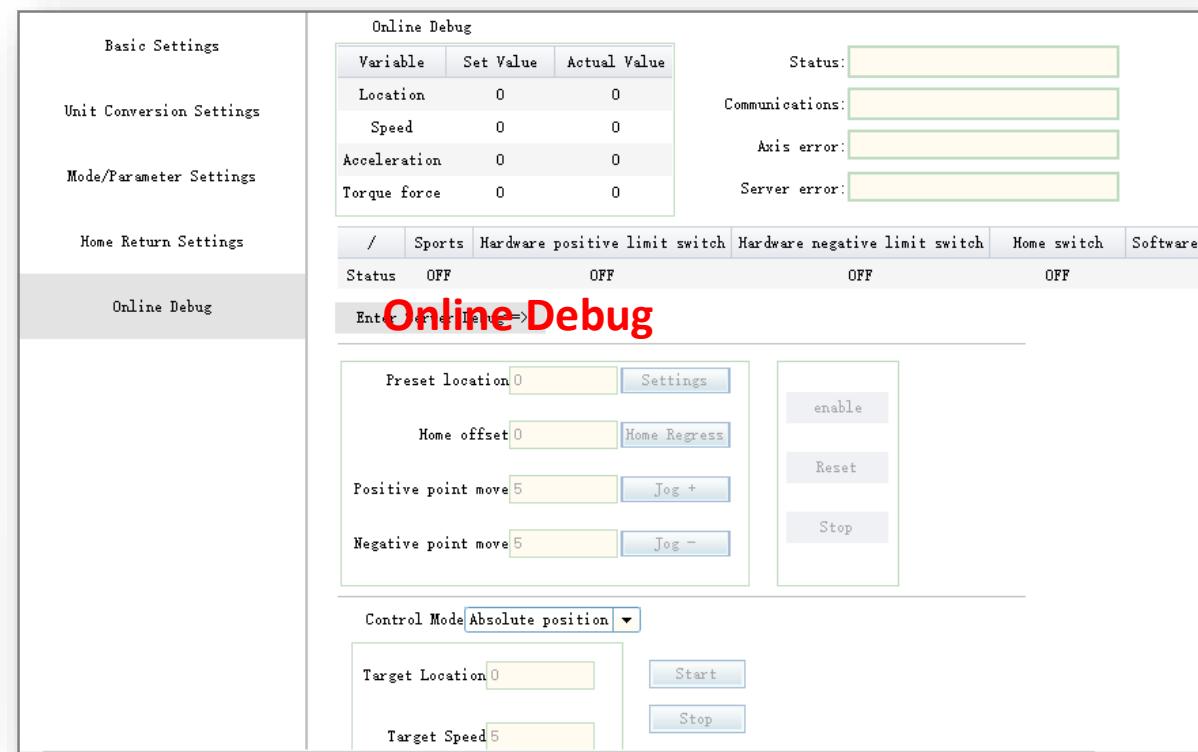
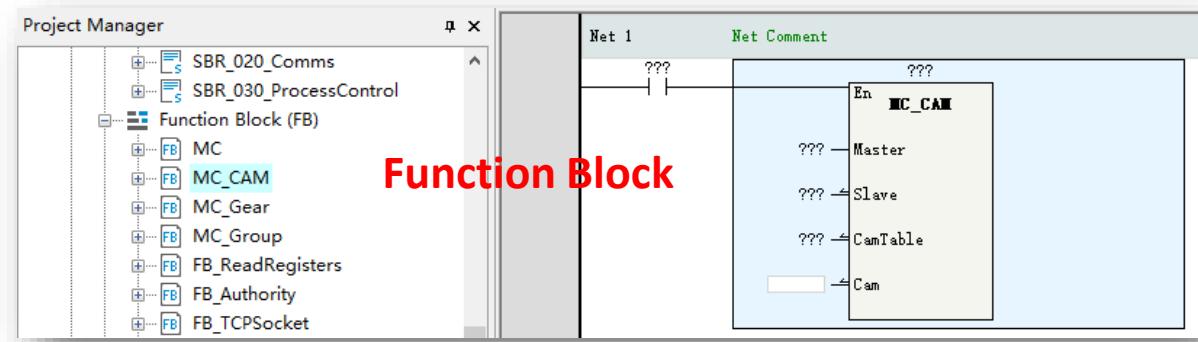
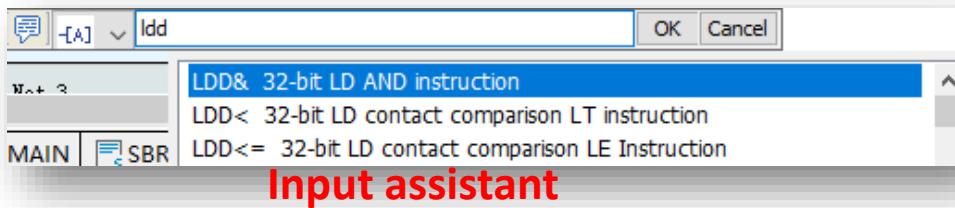


H5U Features

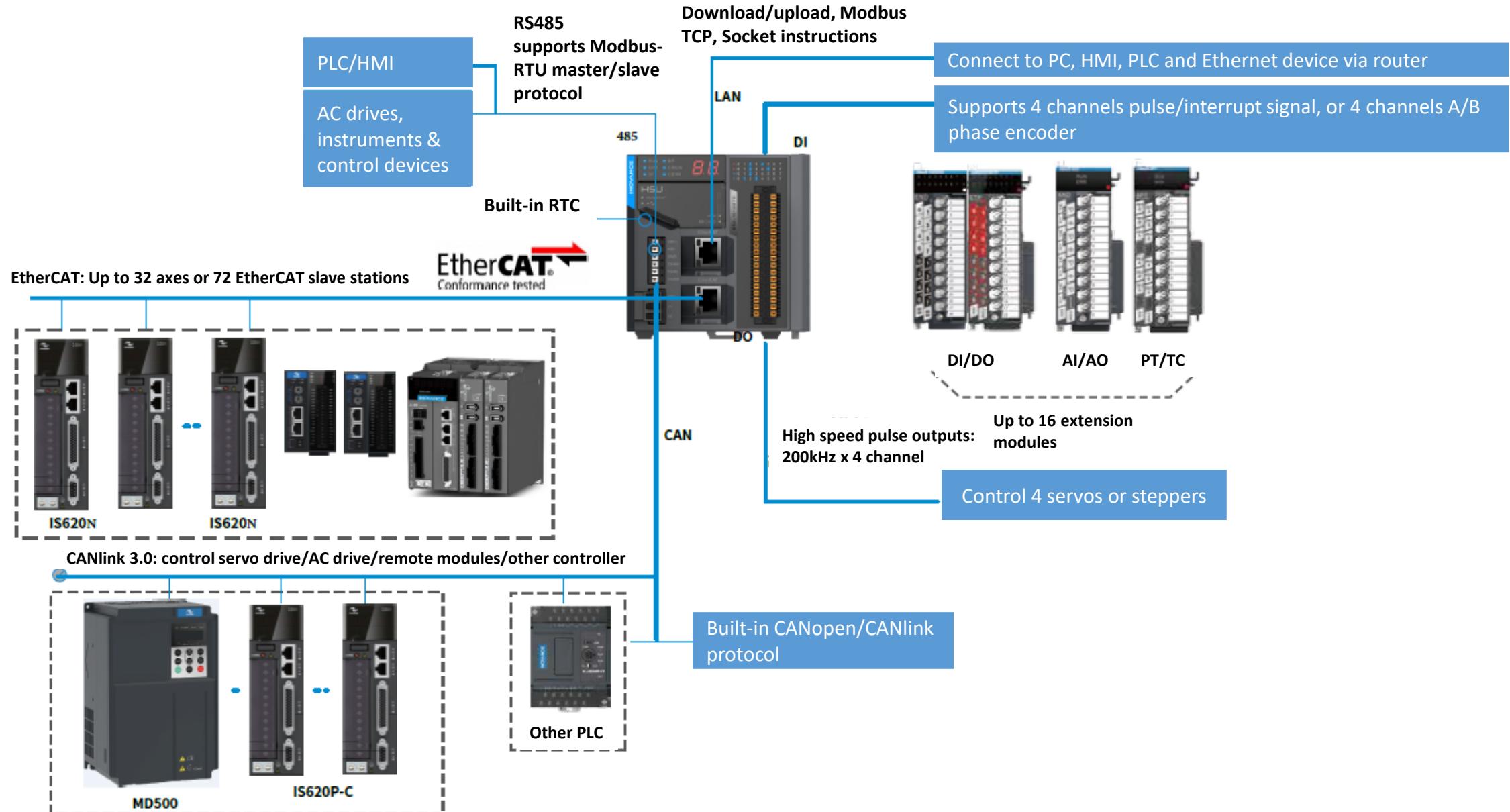
- Supports FB/FC, can realize the process of encapsulating and reuse.
- Efficient and easy to use ladder diagram programming; graphic block programming can be inserted in the ladder diagram.
- Custom defined variable programming, programming input assistant.
- Non programming servo debugging, graphical online debugging interface (control axis without programming).

NO.	Variable...	Data Type	Initial Value	Power Down Hold	Comment	Element Addr.
1	sTCP	Stru_TCPSocket	...	Non Retained		
30	aSenBuf_TCP	INT[50]	...	Non Retained		
81	aRecBuf_TCP	INT[50]	...	Non Retained		
132	xEnable_TCP	BOOL	OFF	Non Retained		
133	iSenSize_TCP	INT	50	Non Retained		
134	IRecSize_TCP	INT	50	Non Retained		
135	sUDP	Stru_UDPSocket	...	Non Retained		
152	aSendBuf_UDP	INT[50]	...	Non Retained		

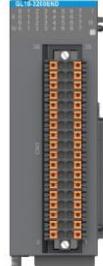
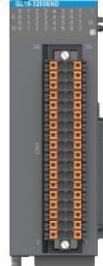
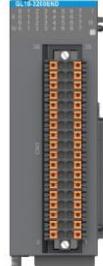
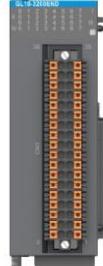
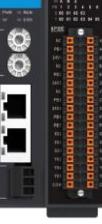
Variable definition



H5U Control Topology



H5U Extension Modules

GL modules	GR modules	H5U CPU	Power Supply Module GL10-PS2	EtherCAT Coupler GL10-RTU-ECTA	
<u>POWER SUPPLY UNIT</u>	<u>REMOTE MODULES(ETHERCAT SLAVE)</u>				
GL10-PS2-INT	GR10-2HCE-INT				
<u>INPUT IO MODULES</u>					
GL10-1600END-INT	GR10-0808ETNE-INT				
GL10-3200END-INT					
<u>OUTPUT IO MODULES</u>	GR10-1616ETNE-INT	GL modules Local Extension Modules	IO Modules	Analog Modules	Temperature Detection Modules
GL10-0016ER-INT	GR10-2PHE-INT				
GL10-0016ETN-INT					
GL10-0016ETP-INT	GR10-4ADE-INT				
GL10-0032ETN-INT	GR10-4DAE-INT				
<u>ANALOG MODULES</u>	GR10-4PME-INT				
GL10-4DA-INT					
GL10-4AD-INT	GR10-8TCE-INT				
<u>THERMISTOR MODULES</u>					
GL10-4PT-INT		GR Modules EtherCAT Remote Modules	Remote IO Modules	Remote Analog Modules	Remote Temperature Detection Modules
GL10-4TC-INT					
GL10-8TC-INT					
<u>ETHERCAT COUPLER</u>					
GL10-RTU-ECTA-INT					

Current Status

- **Available models.** Check below list.

Model	Part No.	Description	CE
H5U-1614MTD	01440087	Programmable Logic Controller-H5U-1614MTD-H5U Series 16 Input 14 Output	Yes
		Programmable Logic Controller	
H5U-1614MTD-A16	01440235	Programmable Logic Controller-H5U-1614MTD-A16-H5U Series 16 Input 14 Output	Yes
		Programmable Logic Controller(16 axis)	
H5U-1614MTD-A8	01440236	Programmable Logic Controller-H5U-1614MTD-A8-H5U Series 16 Input 14 Output	Yes
		Programmable Logic Controller(8 axis)	
H5U-1614MTD-A8S	01440315	Programmable Logic Controller-H5U-1614MTD-A8S-H5U Series 16 Input 14 Output	Yes
		Programmable Logic Controller(8 axis without CAN and CAM function)	

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Forward Always Progressing