

## H5U Series

High performance, compact, EtherCAT-enabled PLC

- Compact footprint
- PLCopen-compliant axis control
- Simulation mode for offline debugging
- Real-time fieldbus



# H5U: high performance PLC

## Programming

- Supports function block and function for encapsulation, code reusability, and scalability
- Efficient and easy-to-use ladder diagram programming, supporting graphic block instructions
- User-defined variable programming with intuitive programming input assistant

## Motion control

- EtherCAT: 32-axis PTP motion control
- PLCopen-compliant axis control
- Local pulse and EtherCAT axis share the same motion control instructions
- Axis group for lineal and circular interpolation
- CAM tables functionality
- 4 x high speed pulse output channels, to control stepper motors
- Able to control servo drive via CANopen

## Communications

- Supports 72 EtherCAT slaves
- 1 CAN interface: CANopen and CANlink master/slave
- 1 RS485 interface: Modbus RTU master/slave
- 1 Ethernet connection supports Modbus TCP and socket programming instructions

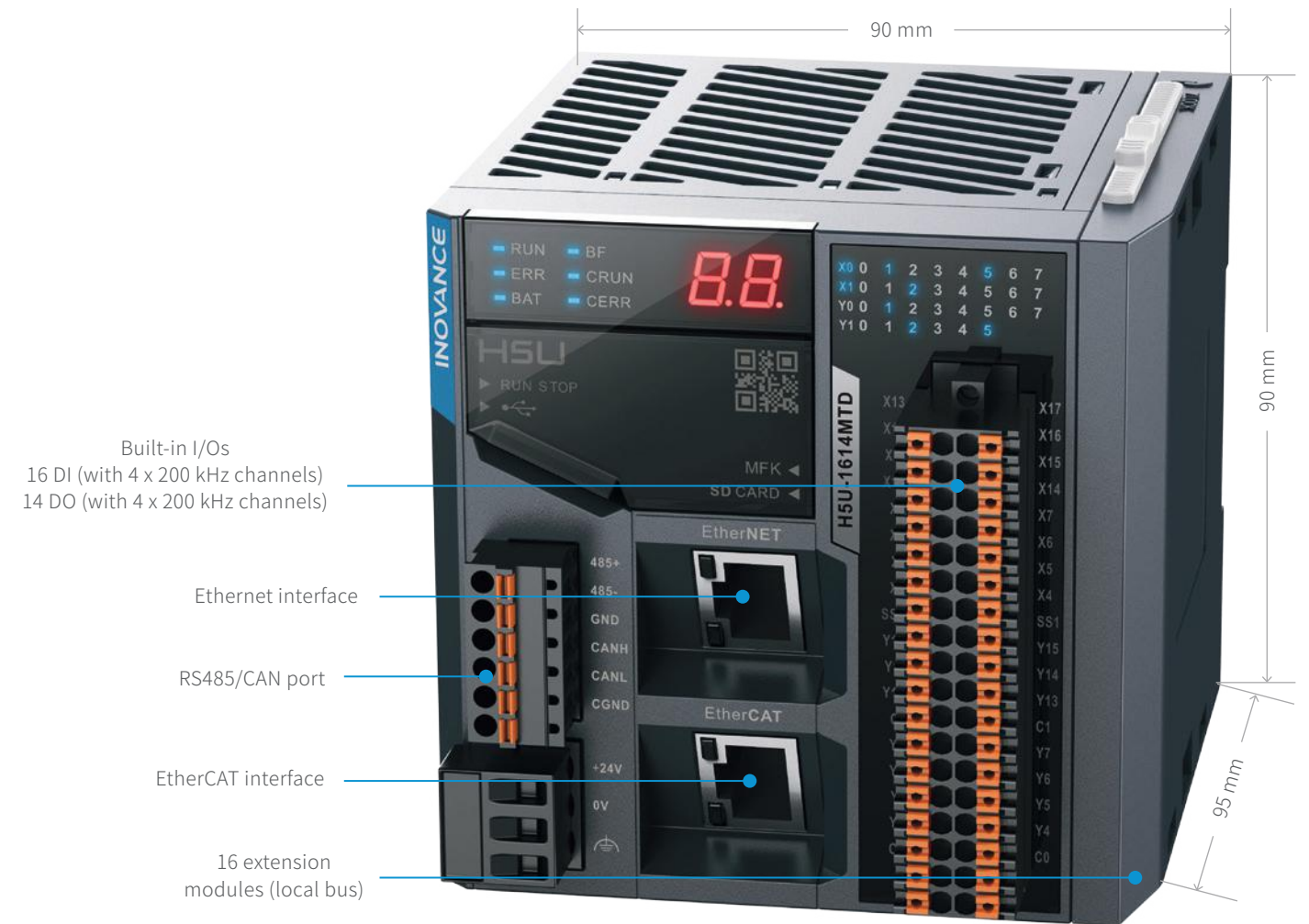
## I/O configuration

- Main unit with 16 inputs and 14 outputs, including high-speed I/Os
- Supports up to 16 GL10 (AM600 series) local expansion modules
- Remote GR10 I/O modules can be connected as EtherCAT slaves

Please note: refer to AM600 catalogue for more detail about our remote I/O modules

## Commissioning

- Simulation mode
  - PLC programs
  - Axis control
  - Local I/O
  - Serial and Ethernet comms
- High-resolution trace tool
- Program upload/download and firmware upgrade (only available with SD card)
- Axis interface for easy test and monitoring



This image is illustrated in its actual size: W 90 mm x H 90 mm x D 95 mm

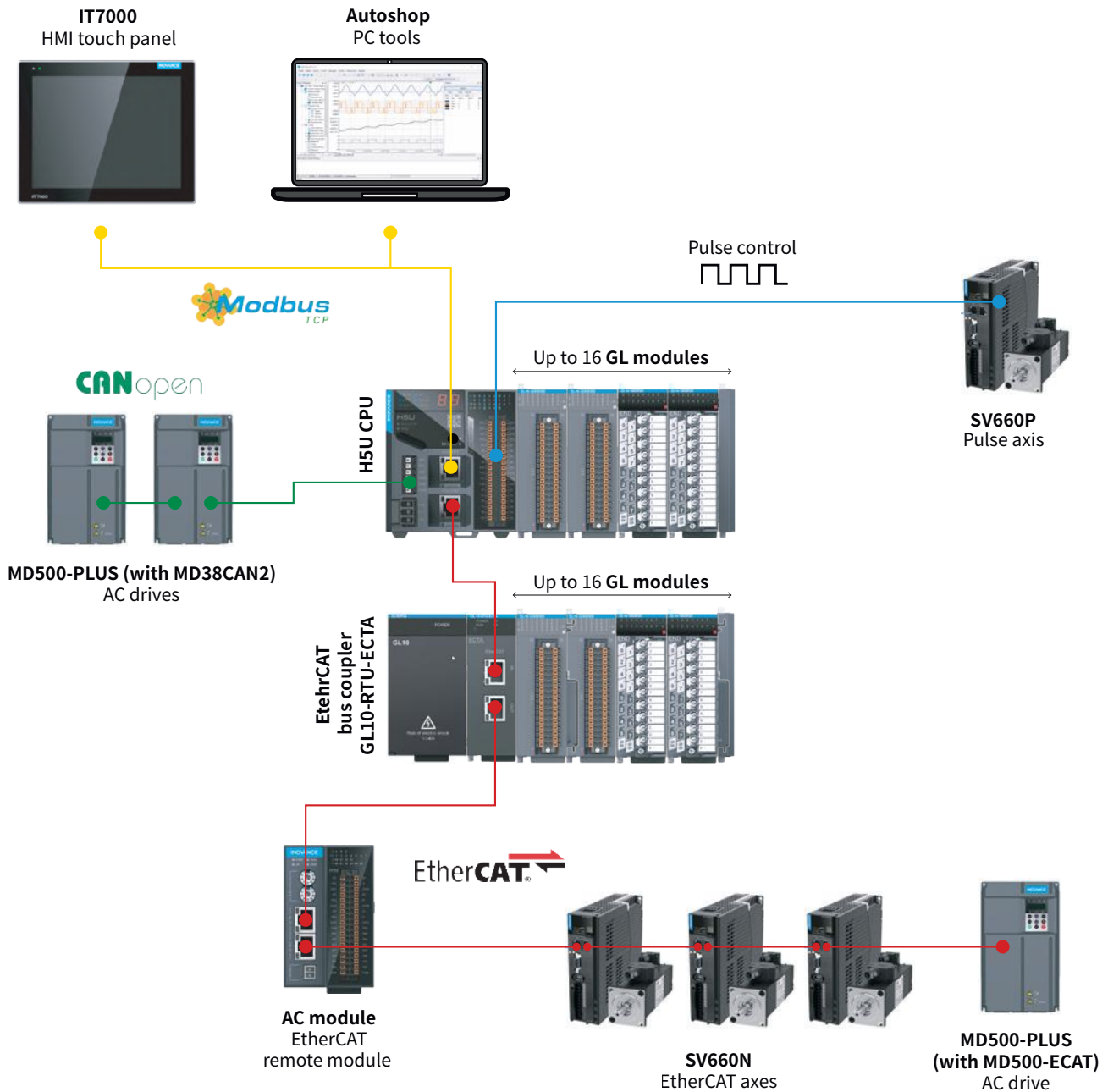
Model	H5U-1614MTD
<b>Axis capacity</b>	A total of 32 synchronised axes is possible. This can be a max. of 32 EtherCAT axes <sup>1</sup> , or a combination that includes a max. of four pulse control axes
<b>Communication specifications</b>	EtherCAT: max. 72 EtherCAT slaves <sup>2</sup> (including synchronised axes)
	Ethernet: Modbus TCP, socket programming
	CAN: supports CANlink and CANopen (only supports CANopen for axis control)
	RS485: Modbus RTU and free communication protocol
<b>Program capacity</b>	200 K-step user program
<b>Data capacity</b>	2 MB user-defined variables, of which 256 KB supports power failure retention
	Approx. 150 KB soft elements, of which 145 KB supports power failure retention
<b>Programming language</b>	LD, SFC, supporting function block/ function (LD)
<b>High-speed I/Os</b>	4 x 200 kHz high-speed inputs (2 encoder counting)
	8 x 200 kHz high-speed outputs (4-axes pulse output)
<b>General I/Os</b>	16 sink (NPN)/ source (PNP) inputs and 14 sink (NPN) outputs (including high-speed I/Os)
<b>Module expansion</b>	16 local modules, remote modules can be connected as EtherCAT slaves
<b>Power input</b>	+24 VDC
<b>Other interfaces</b>	USB SD card
<b>Dimensions</b>	L x W x H = 83 mm x 95 mm x 90 mm
<b>Ordering code</b>	01440087

<sup>1</sup>Synchronised axes

<sup>2</sup>EtherCAT slaves include I/Os and synchronised and non-synchronised axes



# H5U - application topology



For more information, please contact our local offices.

## International Offices

### Germany-Stuttgart

Tel: +49 (0) 7144 8990 sales.de@inovance.eu

### Italy-Milano

Tel: +39 (0) 2268 22318 | sales.it@inovance.eu

### France-Bordeaux

Tel: +33 (0) 5594 01050 | sales.fr@inovance.eu

### Turkey-Istanbul

Tel: +90 (216) 706 17 89 | info@inovance.eu

### Hong Kong SAR

**International Export Office**  
Tel: +852 2751 6080  
info@inovance.eu

### South Korea-Seoul

Tel: +82 (0) 10 7428 5732 | info@inovance.eu

### India

**Head Office Chennai** | Tel: +91 (0) 44 4380 0201

**Ahmedabad** | Tel: +91 (0) 79 4003 4274

**Mumbai** | Tel: +91 (0) 22 4971 5883

**New Delhi** | Tel: +91 (0) 11 4165 4524

**Sales Network** in Kolkata, Bengaluru, Coimbatore, Hyderabad, Pune, Vadodara

Email: info@inovance.ind.in

For other country distributors, contact the Hong Kong office.

**Inovance Technology Companies**  
Shenzhen Inovance Technology Co. Ltd.  
Suzhou Inovance Technology Co. Ltd.

**INOVANCE**  
www.inovance.eu