

H3U Series PLC

Higher performance with Motion Control

Features & Functions

- All in one CPU and power supply supporting local and remote I/O
- Basic instruction: 100 ns/instruction
- Program capacity: 64K steps
- Device memory
 - Auxiliary relays 9216 points
 - Timers 512 points
 - Counters 256 points
 - Data registers 9552 points
 - File registers 32768 points
- High speed inputs: up to 200kHz
- High speed outputs: up to 500kHz^{*1}
- Three axes electronic cam (only high-end motion model)
- Standard motion: two-axes circular and point to point interpolated
- High-end motion: three-axes point to point interpolated and spiral curve^{*1}
- Supports Ethernet (MODBUS-TCP), RS485 (MODBUS-RTU), CANopen, CANlink (Inovance proprietary) communication
- Maximum of 192 digital I/O (local), 24 analog I/O (local), 7936 digital I/O (remote), 1488 analog I/O (remote)
- Programming language conforms to IEC 61131-3:
 - Ladder Diagram (LD)
 - Instruction List (IL)
 - Sequential Function Chart (SFC)

Note: *1. Available in H3U-0808PMRTA.

NEW

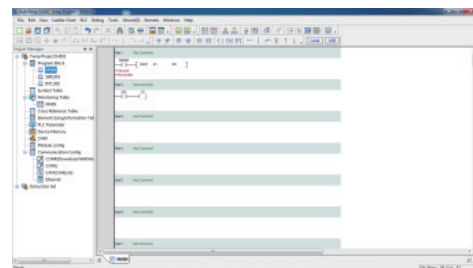
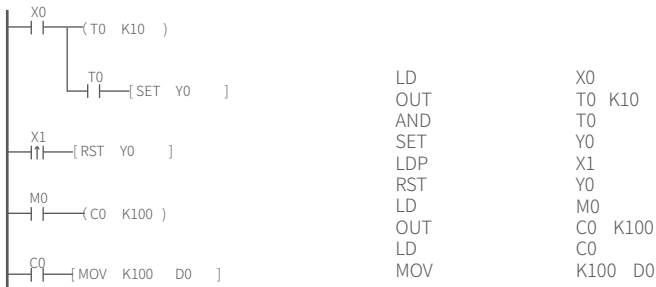
Up to three-axes electronic cam, more flexible and easy setup



Operation in high ambient temperature $\leq 55^{\circ}\text{C}$
Please note: If operating above 40°C derating is required

NEW

Built-in multiple communication ports including Ethernet, CAN, Serial, USB ports, supporting program download/upload via Serial/USB/Ethernet ports



PC-Based software AutoShop
easy programming tool



General Specifications

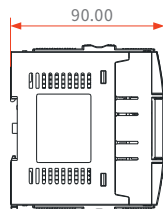
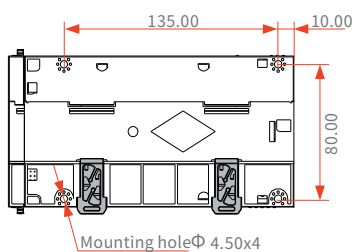
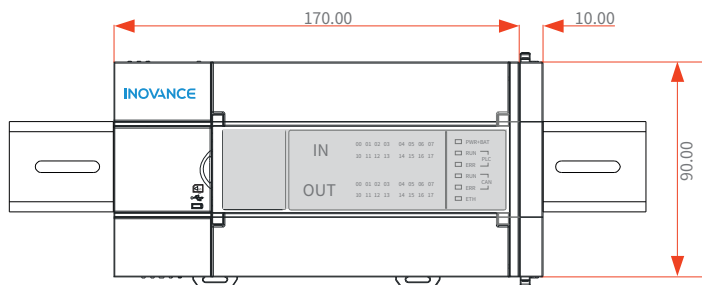
| PLC Model | | H3U-1616MT-XP | H3U-1616MR-XP | H3U-3232MT | H3U-3232MR | H3U-0808PMRTA | |
|----------------------|--------------------|---|-------------------------|-------------------------|-------------------------|---|--|
| Category | | Standard motion ^[5] | | | | High-end motion ^[6] | |
| Dimension | Height | [H] : 90 mm | | | [H] : 90 mm | | |
| | Width | [W] : 170 mm | | | [W] : 230 mm | | |
| | Depth | [D] : 90 mm | | | [D] : 95 mm | | |
| Local extension I/O | | Maximum of 128 DI/DO or 24 AD/DA, see local extension modules on page 4 | | | | | |
| Remote extension I/O | | Maximum of 7936 DI/DO or 1488 AD/DA, see remote extension modules on page 4 | | | | | |
| Power Supply | | 85~264VAC | | | | | |
| Built-in Inputs | Total inputs | 16 | 16 | 32 | 32 | 8 ^[1] | |
| | High-speed inputs | 8x200kHz ^[2] | 8x200kHz ^[2] | 8x200kHz ^[2] | 8x200kHz ^[2] | 3x200kHz ^[3] | |
| Built-in Outputs | Total outputs | 16 | 16 | 32 | 32 | 8 ^[4] | |
| | High-speed outputs | 5x200kHz ^[7] | N/A | 5x200kHz ^[7] | N/A | 3x500kHz ^[8] | |
| | Output Type | Transistor(NPN) | Relay ^[9] | Transistor(NPN) | Relay ^[9] | 4 x Relay ^[9] 4 x Transistor(NPN) | |
| Built-in Ports | Serial Port | COM0 (RS422/RS485), COM1 (RS485), Modbus-RTU, DB9 | | | | | |
| | CAN Port | CANopen/CANlink | | | | | |
| | Ethernet Port | Modbus-TCP, RJ45 | | | | | |
| | USB(Device) | Mini-B | | | | | |

Note:

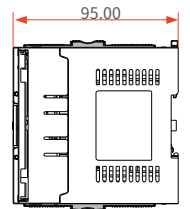
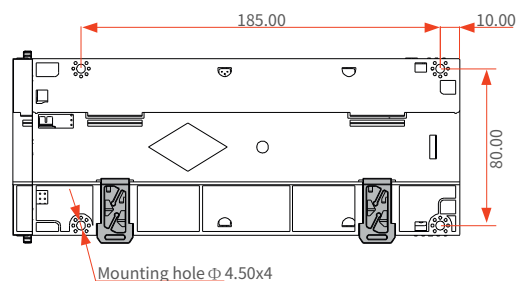
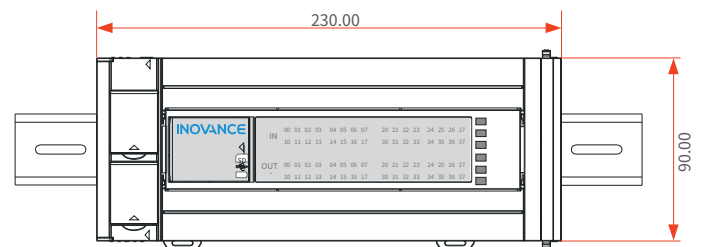
- [1] 8 inputs=X0~X7, normal inputs
- [2] 8 x 200kHz: 8 open-collector high-speed (pulse train) inputs
- [3] 3 x 200kHz = 3-channel A/B phase differential high-speed inputs
- [4] 8 outputs=Y0~Y7, normal outputs
- [5] Supports two-axes circular and point to point interpolated
- [6] Supports three-axes point to point interpolated and spiral curve
- [7] 5 x 200kHz = 5 open-collector high-speed (pulse train) outputs
- [8] 3 x 500kHz = 3-axes (channels) differential high speed (pulse train) outputs
- [9] Maximum output current:
Resistive load: 2A/1 point (maximum current of the common terminal is 8A)
Inductive load: AC220V, 80VA
Lamp load: AC220V, 100W

Dimensions

H3U-1616MT/R-XP (Unit: mm)

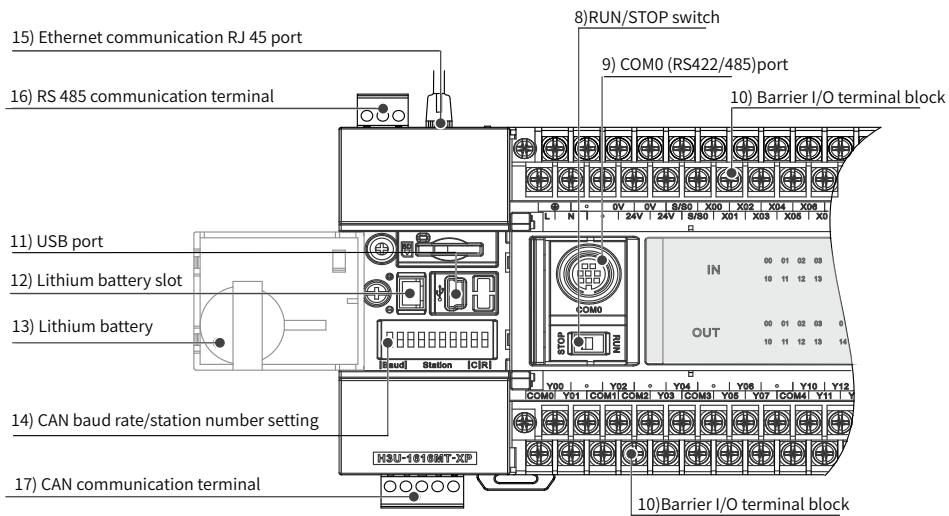
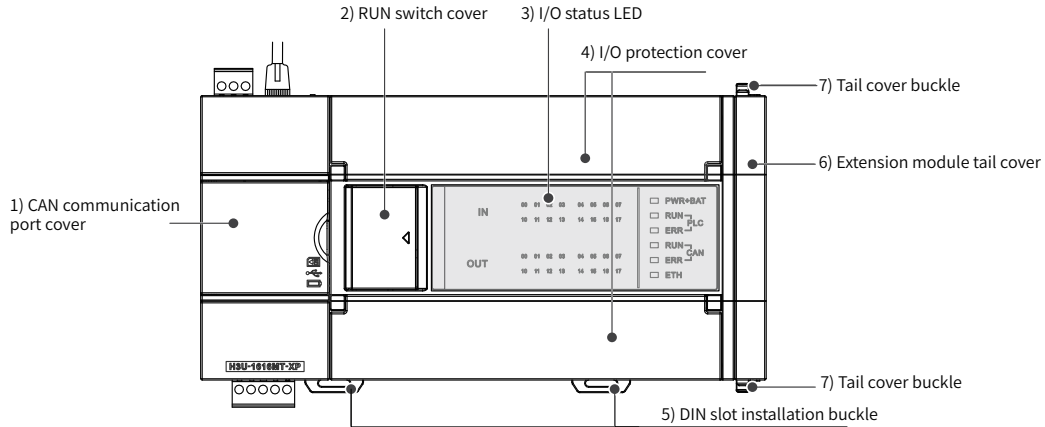


H3U-3232MT/R or H3U-0808PMRTA (Unit: mm)

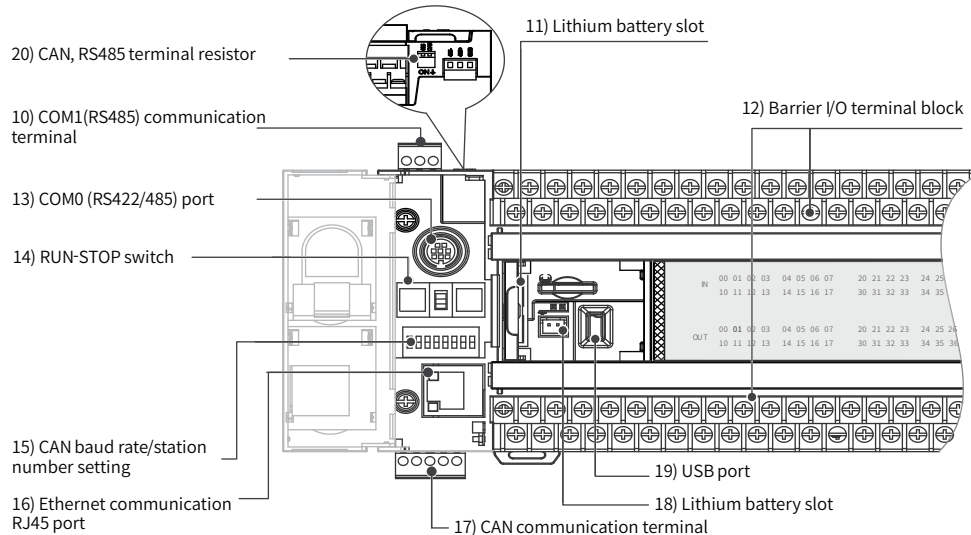
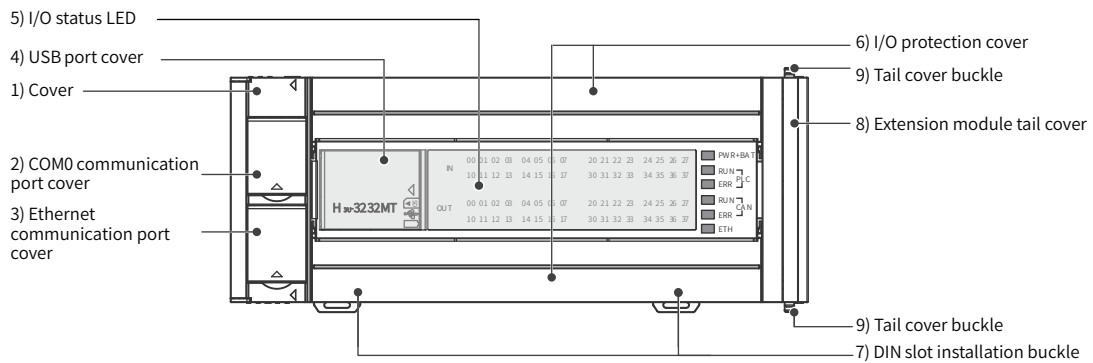


Product Overview

H3U-1616MT/R-XP



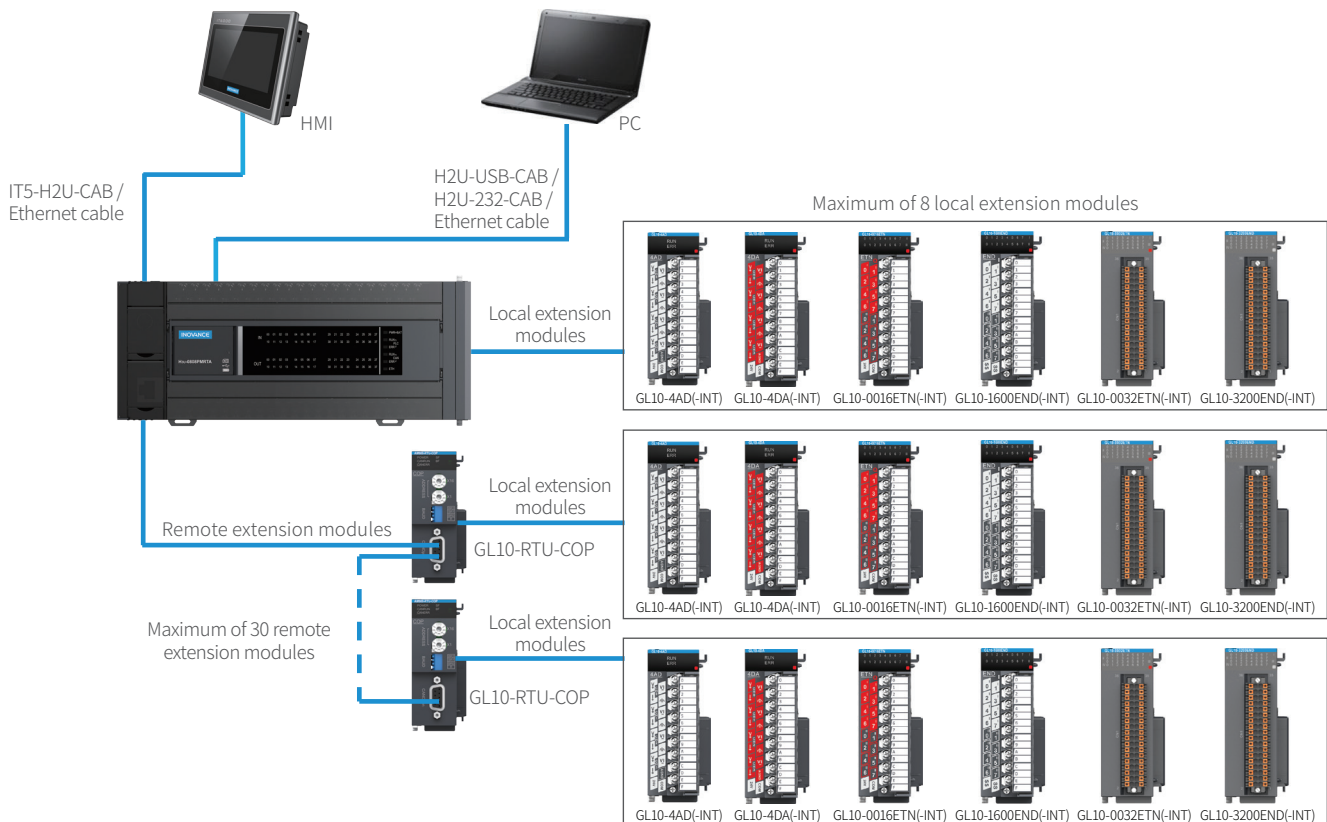
H3U-3232MT/R or H3U-0808PMRTA



Accessories List

| Part Name | Model | Function description | Part no. |
|-------------------|------------------|---|----------|
| Extension Modules | GL10-4AD-INT | PLC analog input module, 4-channel analog input module | 01440197 |
| | GL10-4DA-INT | PLC analog output module, 4-channel analog output module | 01440192 |
| | GL10-0016ER-INT | PLC I/O output module, 16-channel digital relay output module | 01440193 |
| | GL10-0016ETN-INT | PLC I/O output module, 16-channel digital transistor NPN output module | 01440195 |
| | GL10-0016ETP-INT | PLC I/O output module, 16-channel digital transistor PNP output module | 01440199 |
| | GL10-0032ETN-INT | PLC I/O output module, 32-channel digital transistor NPN output module | 01440217 |
| | GL10-1600END-INT | PLC I/O input module, 16-channel source/sink digital input module | 01440198 |
| | GL10-3200END-INT | PLC I/O input module, 32-channel source/sink digital input module | 01440216 |
| | GL10-PS2-INT | Power supply module | 01440196 |
| | GL10-RTU-COP | CANopen slave communication module, maximum of 16 extension I/O modules | 01440083 |
| Cables | H2U-232-CAB | PLC program download cable, connection of PC to Inovance PLC, the port of the cable is DB9 female, length of 2m | 15042148 |
| | H2U-USB-CAB | PLC program download cable, connection of PC to Inovance PLC, the port of the cable is mini USB, length of 1.5m | 15041200 |
| | IT5-H2U-CAB | HMI-PLC communication cable, connection of HMI to Inovance PLC, the port of the cable is DB9 male, length of 3m | 15041140 |
| | S6-L-T04-0.3 | Ethernet cable, length of 0.3m, speed of up to 100Mbps, STP | 15040261 |
| | S6-L-T04-3.0 | Ethernet cable, length of 3.0m, speed of up to 100Mbps, STP | 15040262 |
| Battery | H2U-BAT | CR2032 button cell lithium battery for Inovance PLC, 3.0V, 225mAh, wire length of 55mm | 01023010 |

H3U Series PLC System Configuration



For more information, please contact our local offices.

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