

H3U Series PLC

High 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: 64 K 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 200 kHz
- High speed outputs: up to 500 kHz^{*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

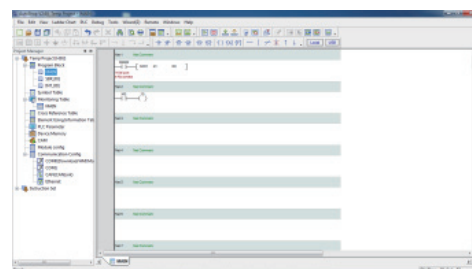
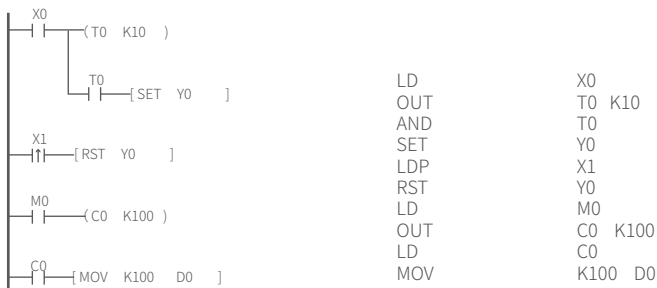
Up to three-axes electronic cam, with flexible and easy setup



Operation in high ambient temperature $\pm 55^{\circ}\text{C}$
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-2416MT-XP	H3U-1616MR-XP/ H3U-2416MR-XP	H3U-3232MT/ H3U-3624MT	H3U-3232MR/ H3U-3624MR	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		85~264 Vac				
Built-in inputs	Total inputs	16 24	16 24	32 36	32 36	8 ^[1]
	High-speed inputs	8 x 200 kHz ^[2]	8 x 200 kHz ^[2]	8 x 200 kHz ^[2]	8 x 200 kHz ^[2]	3 x 200 kHz ^[3]
Built-in outputs	Total outputs	16 16	16 16	32 24	32 24	8 ^[4]
	High-speed outputs	5 x 200 kHz ^[7]	N/A	5 x 200 kHz ^[7]	N/A	3 x 500 kHz ^[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 200 kHz: 8 open-collector high-speed (pulse train) inputs

[3] 3 x 200 kHz = 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 200 kHz = 5 open-collector high-speed (pulse train) outputs

[8] 3 x 500 kHz = 3-axes (channels) differential high speed (pulse train) outputs

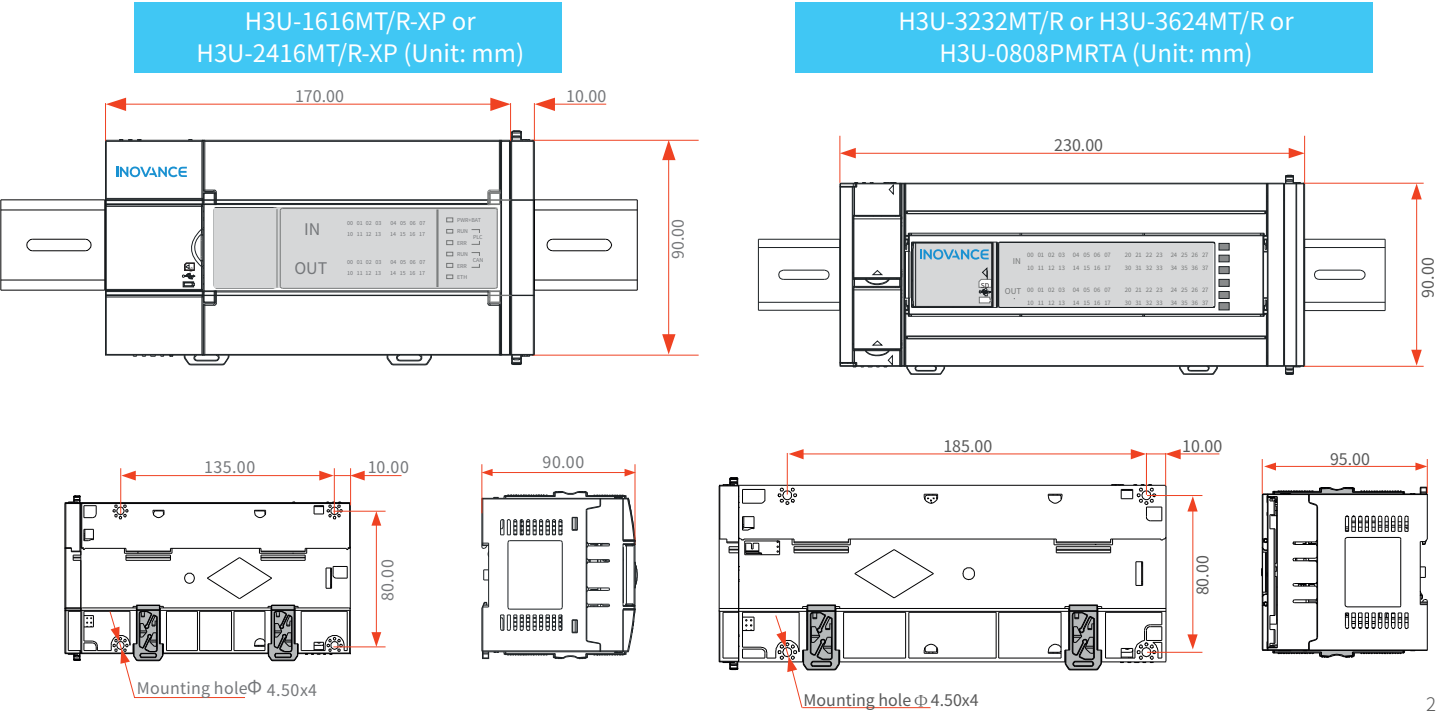
[9] Maximum output current:

Resistive load: 2 A/1 point (maximum current of the common terminal is 8 A)

Inductive load: AC 220 V, 80 VA

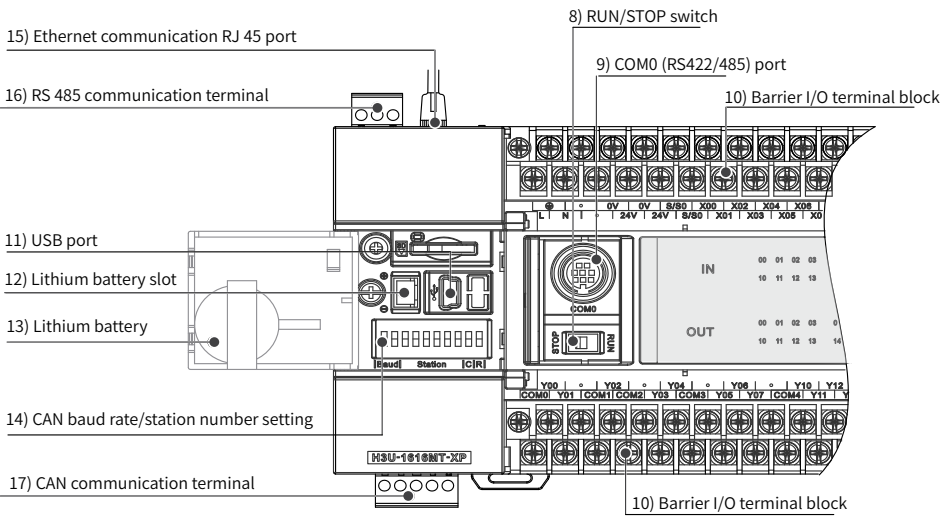
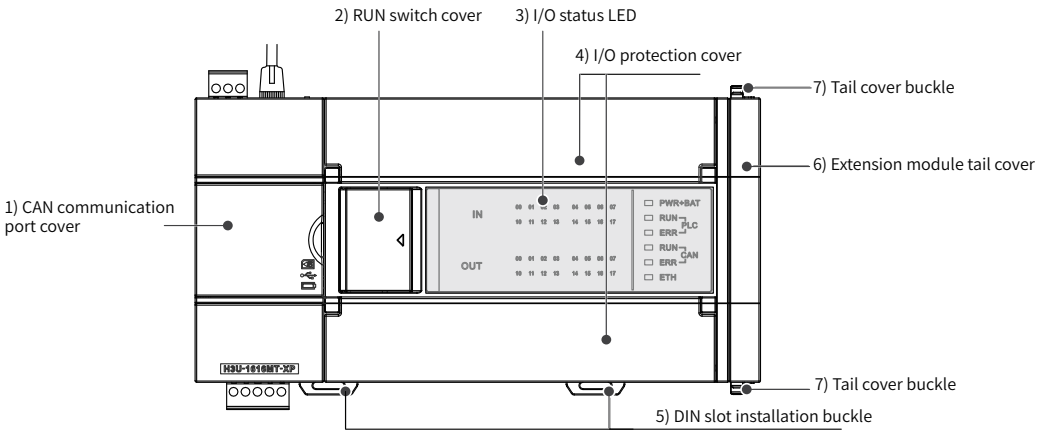
Lamp load: AC 220 V, 100 W

Dimensions

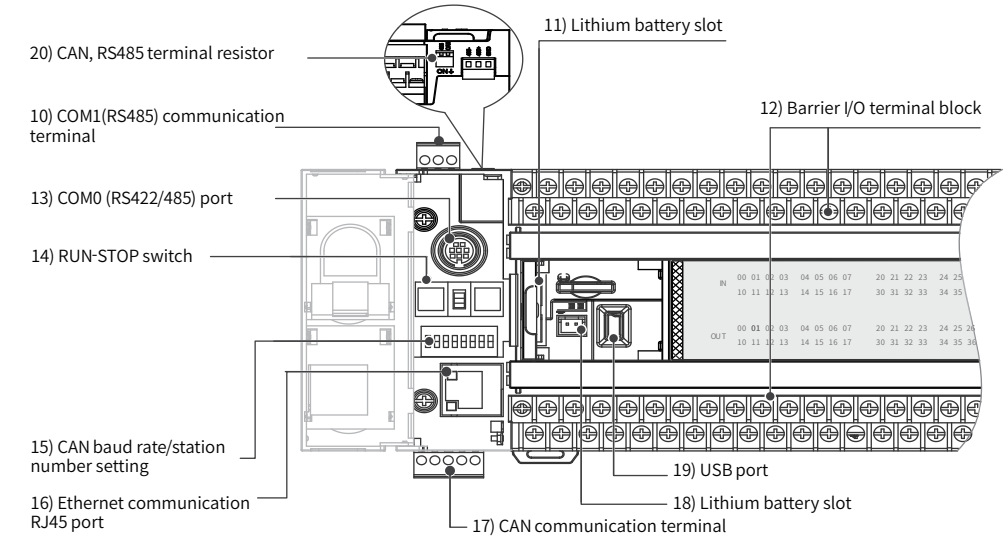
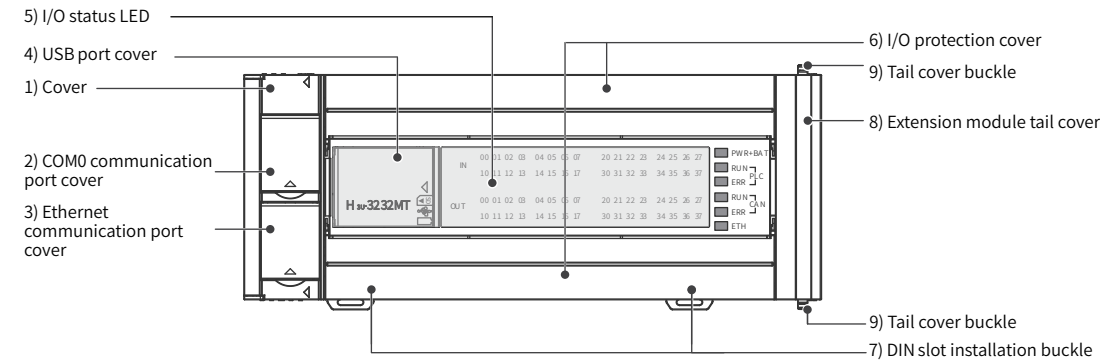


Product overview

H3U-1616MT/R-XP or H3U-2416MT/R-XP



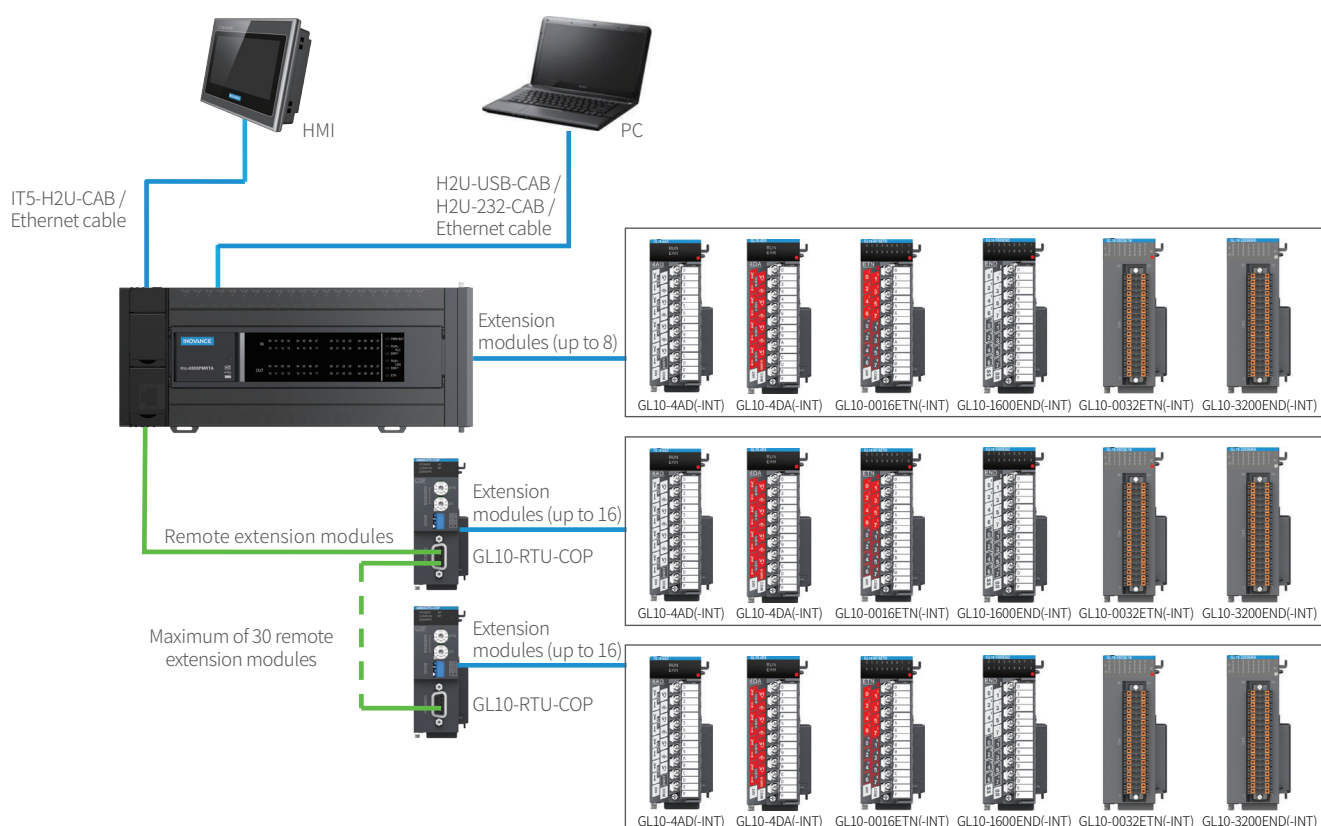
H3U-3232MT/R or H3U-3624MT/R or H3U-0808PMRTA



Accessories list

Accessory	Type code	Part no.	Product description
Extension modules	Digital inputs modules		
	GL10-1600END-INT	01440198	16-channel digital input module
	GL10-3200END-INT	01440216	32-channel digital input module
	Digital outputs modules		
	GL10-0016ER-INT	01440193	16-channel digital relay output module
	GL10-0016ETN-INT	01440195	16-channel digital transistor NPN output module
	GL10-0016ETP-INT	01440199	16-channel digital transistor PNP output module
	GL10-0032ETN-INT	01440217	32-channel digital transistor NPN output module
	Analog inputs/outputs modules		
	GL10-4DA-INT	01440192	4-channel analog output module
	GL10-4AD-INT	01440197	4-channel analog input module
	Power supply module		
	GL10-PS2-INT	01440196	Power supply module, input 220 Vac, output 24 Vdc/2 A
	CANopen coupler		
	GL10-RTU-COP-INT	01440251	CANopen communication slave module, maximum of 16 extension modules
	Temperature detection modules		
	GL10-4PT-INT	01440258	4-channel input thermal resistance temperature detection module
	GL10-4TC-INT	01440263	4-channel input thermocouple temperature detection module
	GL10-8TC-INT	01440261	8-channel input thermocouple temperature detection module
	Positioning modules		
	GL10-4PM-INT	01440260	4-channel pulse output positioning module
	GL10-2PH-INT	01440253	2-channel high-speed differential output positioning module
Cables	H2U-232-CAB	15042148	Connection of a PC to Inovance PLC, the connector on the cable is DB9 female, length of 2 m
	H2U-USB-CAB	15041200	Connection of a PC to Inovance PLC, the connector on the cable is mini USB, length of 1.5 m
	IT5-H2U-CAB	15041140	Connection of an HMI to Inovance PLC, the connector on the cable is DB9 male, length of 3 m
	S6-L-T04-0.3	15040261	Ethernet cable, length of 0.3 m, speed of up to 100 Mbps, STP
	S6-L-T04-3.0	15040262	Ethernet cable, length of 3 m, speed of up to 100 Mbps, STP
Battery	H2U-BAT	01023010	CR2032 button cell lithium battery for Inovance PLC, 3.0 V, 225 mAh, wire length of 55 mm

H3U series PLC system configuration



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