

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 9,216 points
 - Timers 512 points
 - Counters 256 points
 - Data registers 9,552 points
 - File registers 32,768 points
- High speed inputs: up to 200 kHz
- Standard motion: two-axes circular and point to point interpolated
- Supports Ethernet (MODBUS-TCP), RS485 (MOD BUS-RTU), CANopen, CANlink (Inovance proprietary) communication
- Maximum of 192 digital I/O (local), 24 analog I/O (local), 3,840 digital I/O (remote), 960 analog I/O (remote)
- Programming language conforms to IEC 61131-3:
 - Ladder diagram (LD)
 - Instruction list (IL)
 - Sequential function chart (SFC)

NEW

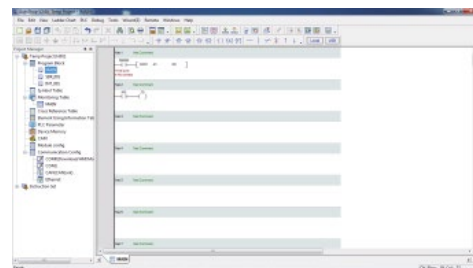
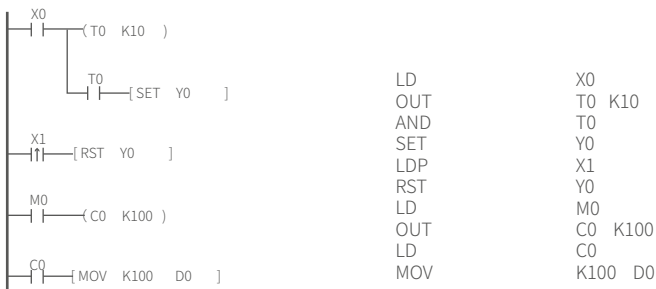
Up to three-axes electronic cam, with flexible and easy setup



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



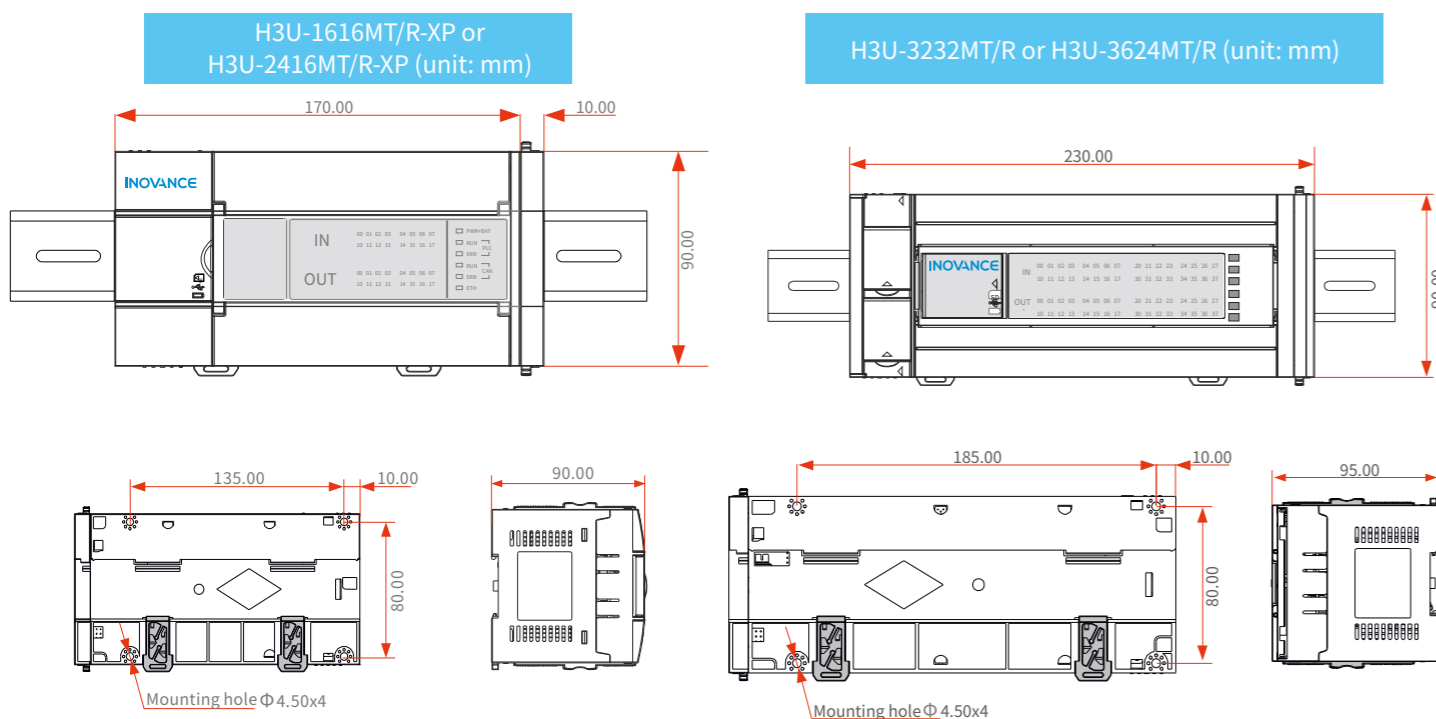
General specifications

PLC model		H3U-1616MT-XP/ H3U-2416MT-XP	H3U-1616MR-XP/ H3U-2416MR-XP	H3U-3232MT/ H3U-3624MT	H3U-3232MR/ H3U-3624MR
Category		Standard motion ^[1]			
Dimensions	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 7,936 DI/DO or 1,488 AD/DA, see remote extension modules on page 4			
Power supply		85~264 Vac			
Built-in inputs	Total inputs	16	16	32	32
	High-speed inputs	24	24	36	36
Built-in outputs	Total outputs	8 x 200 kHz ^[2]	8 x 200 kHz ^[2]	8 x 200 kHz ^[2]	8 x 200 kHz ^[2]
	High-speed outputs	16	16	32	32
Built-in ports	Output type	5 x 200 kHz ^[3]	N/A	5 x 200 kHz ^[3]	N/A
	Output type	Transistor (NPN)	Relay ^[4]	Transistor (NPN)	Relay ^[4]
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:

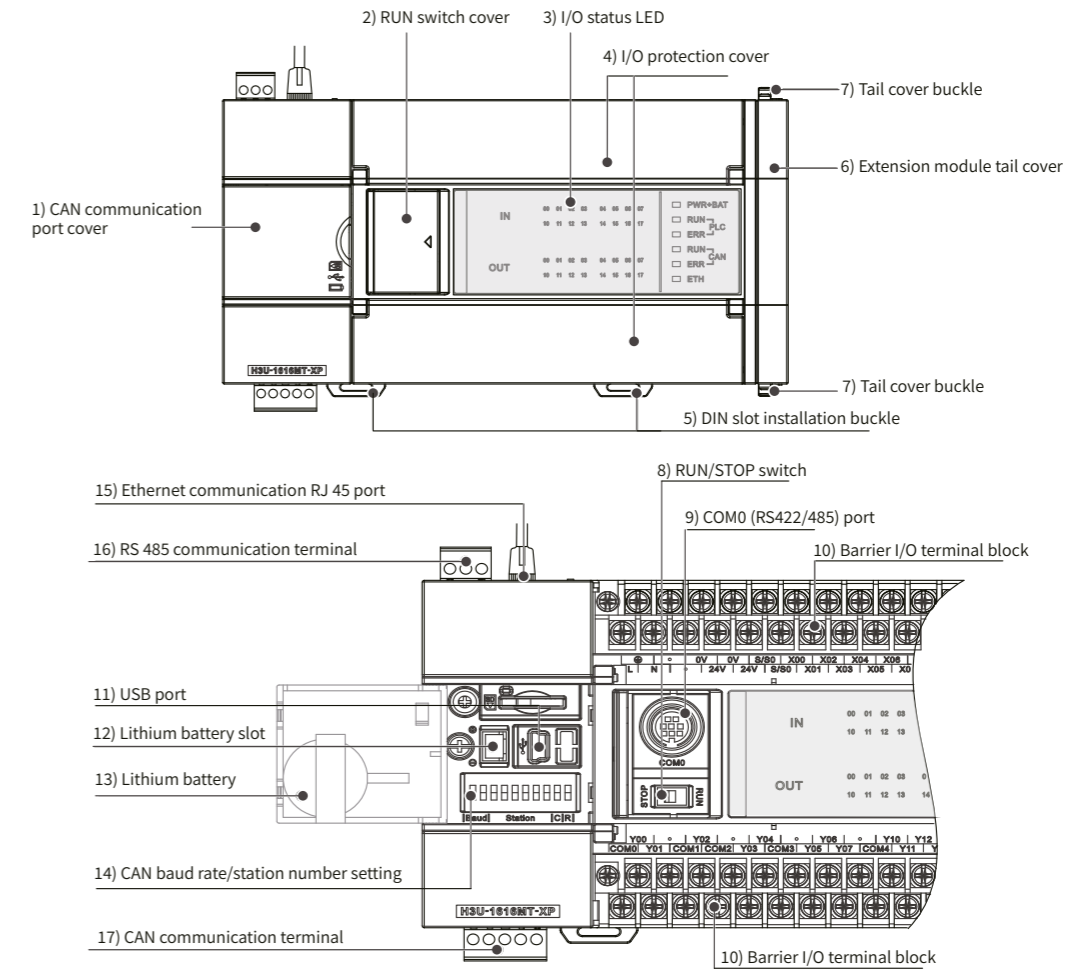
- [1] Supports two-axes circular and point to point interpolated
- [2] 8 x 200 kHz: 8 open-collector high-speed (pulse train) inputs
- [3] 5 x 200 kHz: 5 open-collector high-speed (pulse train) outputs
- [4] Maximum output current:
Resistive load: 2 A/1 point (maximum current of the common terminal is 8 A)
Inductive load: AC 220 V, 80 VA
Lamp load: AC 220 V, 100 W

Dimensions

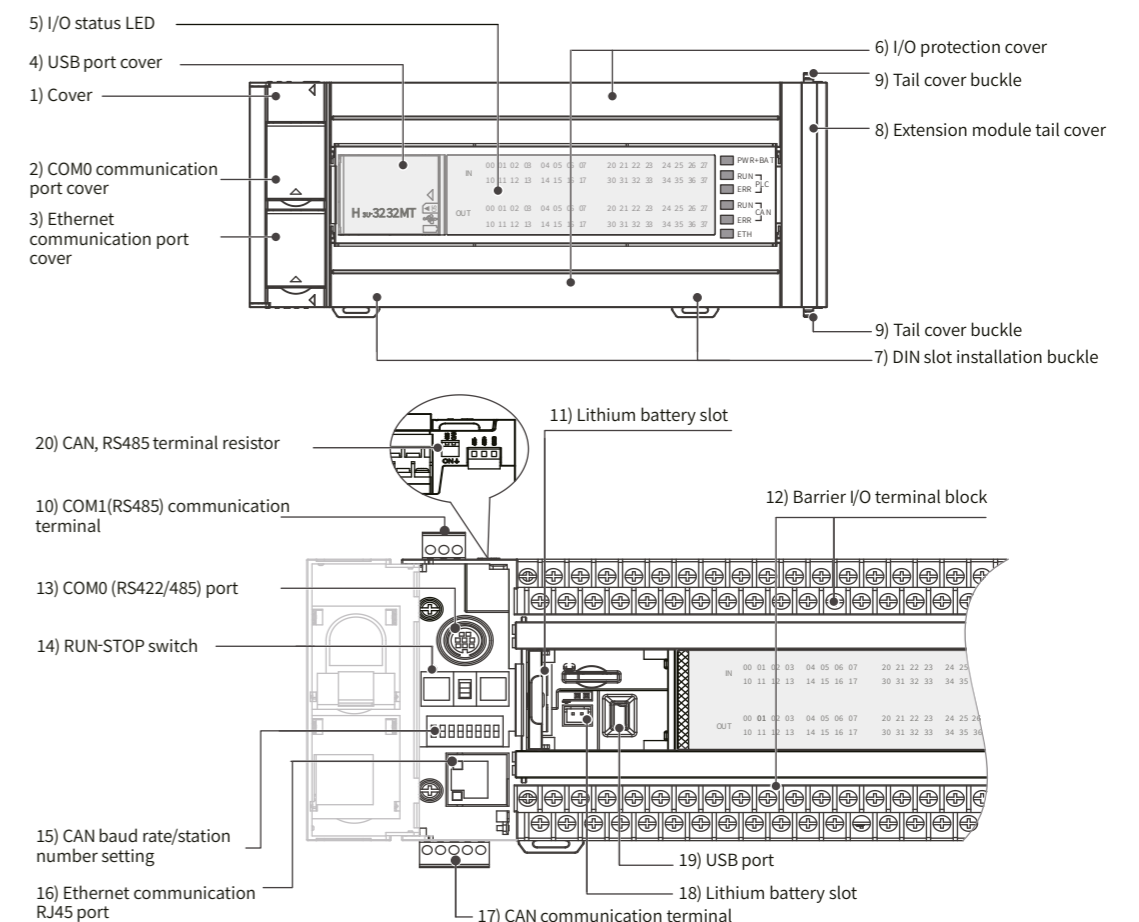


Product overview

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



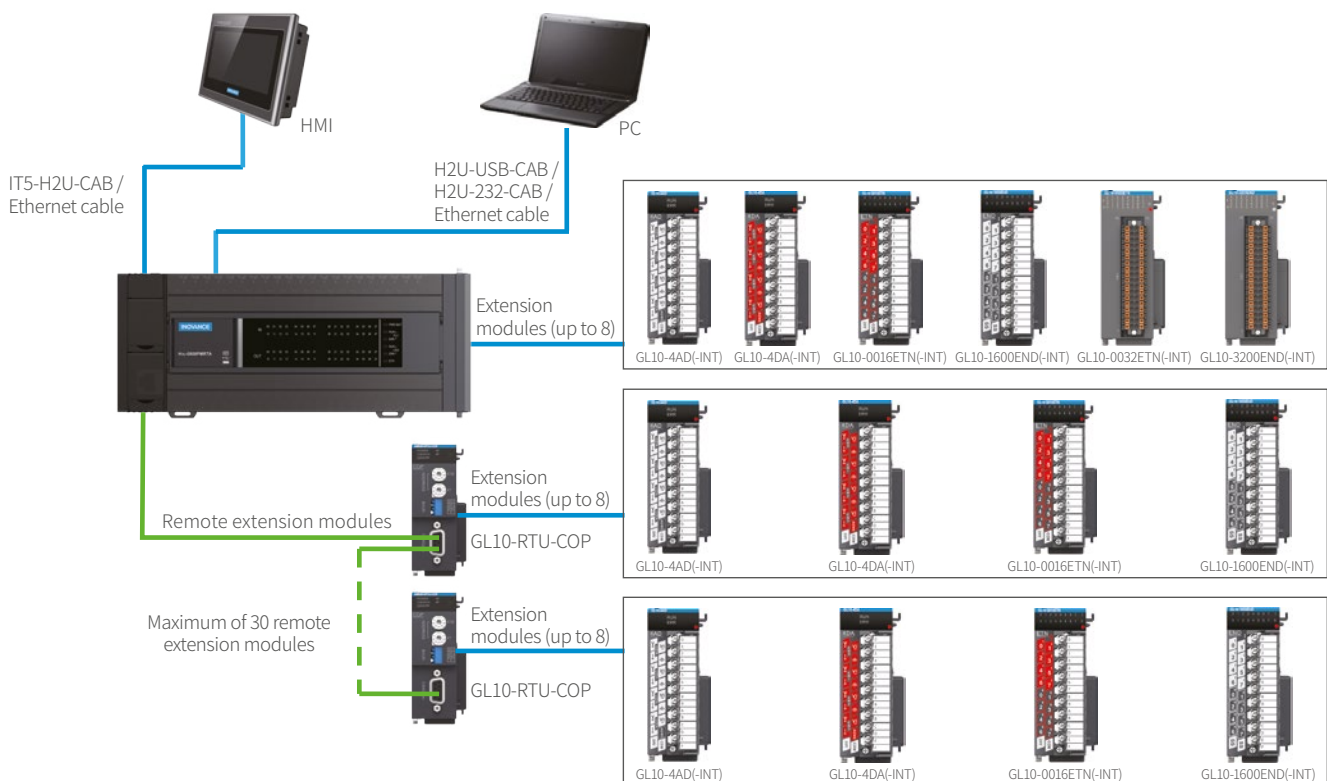
H3U-3232MT/R or H3U-3624MT/R



Accessories list

Model	Part no.	Function description
Power supply module		
GL10-PS2-INT	01440196	Power supply module, input: 220 VAC, output: 2 A/ 24 VDC
CANopen coupler module		
GL10-RTU-COP-INT	01440251	CANopen communication module, DB9 female
Digital input modules		
GL10-1600END-INT	01440198	16 x source (PNP)/sink (NPN) digital input modules, screw terminals
GL10-3200END-INT	01440216	32 x source (PNP)/sink (NPN) digital input modules, pluggable spring clamp
Digital output modules		
GL10-0016ER-INT	01440193	16 x relay output modules
GL10-0016ETP-INT	01440199	16 x source/PNP transistor output modules, screw terminals
GL10-0016ETN-INT	01440195	16 x sink/NPN transistor output modules, screw terminals
GL10-0032ETN-INT	01440217	32 x sink/NPN transistor output modules, pluggable spring clamp
Analog input/output modules		
GL10-4AD-INT	01440197	4 x analog input modules, screw terminals
GL10-4DA-INT	01440192	4 x analog output modules, screw terminals
Temperature detection modules		
GL10-4PT-INT	01440258	4 x channel thermal resistance input temperature detection modules, screw terminals
GL10-4TC-INT	01440263	4 x channel thermocouple input temperature detection modules, screw terminals
GL10-8TC-INT	01440261	8 x channel thermocouple input temperature detection modules, screw terminals
Positioning modules		
GL10-4PM-INT	01440260	4 x channel pulse output positioning modules, pluggable spring clamp
GL10-2PH-INT	01440253	2 x channel high-speed differential output positioning modules, pluggable spring clamp
Cables		
H2U-232-CAB	15042148	Connection of PC to H1U/H2U/H3U, the cable port is DB9 female, length of 2 m
H2U-USB-CAB	15041200	Connection of PC to controller, the connector on the cable is mini USB, length of 1.5 m
IT5-H2U-CAB	15041140	Connection of IT6000 to H1U/H2U/H3U, the cable port 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, with attached wire of 55 mm in length

H3U series PLC system configuration



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

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, Pune
Coimbatore, Hyderabad, Vadodara, Jaipur
Email: info@inovance.ind.in

● **Hong Kong SAR**
International Export Office
Tel: +852 2751 6080
info@inovance.eu

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