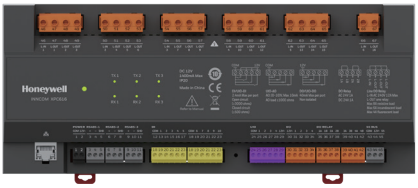
INNCOM XPC616/XPC608 CONTROLLERS

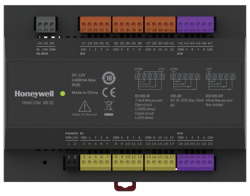
Catering to a wide range of properties, from mid-to-high-end hotels to luxury resorts, Honeywell' s INNCOM Energy Management System (EMS) leverages over 40 years of industry expertise to deliver world-class energy management and IoT solutions worldwide. By optimizing operational costs and advancing green, low-carbon initiatives, the EMS ensures both economic efficiency and exceptional guest comfort.



XPC616



XPC608



X632

The newly developed INNCOM XPC616/608 Room Control System is tailored specifically for mid-to-high-end and premium hotel segments. Featuring a flexible and scalable architecture, it supports universal I/O signals and leading smart building communication protocols. Integrated with advanced dual-contact sequential lighting control technology, the system significantly reduces energy consumption and carbon emissions—delivering clear economic returns and environmental benefits.

Through intelligent environmental regulation, the INNCOM XPC616/608 enhances in-room comfort and personalizes the guest experience. More than just a tool for thoughtful hospitality, this technology creates a sense of warmth and belonging, making every stay feel like home.

FEATURES

The INNCOM XPC616/XPC608 RCU (Room Control Unit) adopts the design philosophy of "one hardware, universal across all brands, all room types, and the entire lifecycle." This approach breaks through the limitations of traditional RCUs, which often require frequent replacement due to brand differences, room type variations, or system upgrades. This design not only simplifies equipment selection and management processes for hotel brands and significantly reduces procurement and renovation costs for owners but also decreases the variety of equipment and improves maintenance efficiency for engineering and operational teams. It truly achieves efficient management that saves effort, money, and resources.

- **UIO:** All models support Universal Input/Output (UIO) signals. Among them, the XPC616 and XPC608 are equipped with 4 UIO channels, while the X632 is equipped with 8. UIO technology not only flexibly meets diverse control point requirements across different room types in new projects—reducing potential investment waste from traditional fixed-point configurations—but also facilitates subsequent controller maintenance, replacement, and room type upgrades during the project lifecycle.
- **Universal Network Protocol:** The XPC616/XPC608 controller is compatible with universal network protocols such as BACnet IP, Modbus TCP, and Modbus RTU, delivering significant value to all relevant stakeholders: For hotel management, it supports standardized system implementation across projects; for property owners, its robust multi-vendor device compatibility helps substantially reduce overall costs; and for operational teams, standardized interfaces and protocols effectively alleviate device compatibility challenges, thereby shortening commissioning cycles and facilitating future upgrades.

Honeywell

- **Universal Lighting Control:** Specifically, the XPC616 provides 16 channels, while the XPC608 offers 8 channels of line-voltage lighting control circuits. These controllers not only reliably drive various types of LED lighting fixtures but also incorporate sequential-action dual-contact relay technology, effectively extending the service life of both relays and lighting fixtures.
- **Faster response:** a controller polling cycle time of 100 milliseconds.
- **Free programming:** with its core strength lying in a built-in library of dedicated functional blocks and functions, such as room-status switching, accessibility-support logic, night-light scenes, master-control memory, and inter-room/linked-suite coordination. This enables engineers to flexibly configure the system and rapidly adapt it to diverse guest-room control scenarios.
- **Graphical Programming Tool:** The controller comes with built-in input and output points and supports connection to expansion modules via the S5 bus.
- **Color-coded Detachable Terminal Blocks:** Facilitate easier and simpler wiring installation, reducing on-site wiring errors.
- **Certifications:** BTL and CE certified.

PRODUCT SPECIFICATION

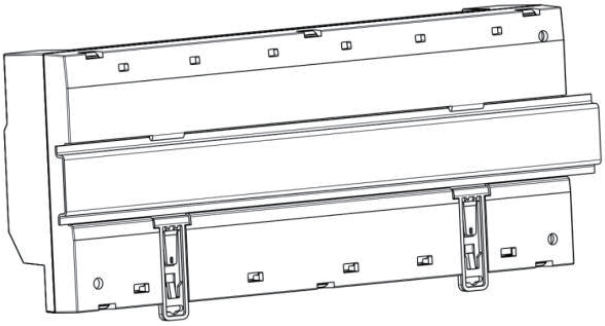
PART NUMBER	Line DO	DI	DO	Dry contact DO	UIO	RS485
XPC616	16	10	4	4	4	3
XPC608	8	10	4	4	4	3
X632	0	12	12	0	8	0
PARAMETER						
CPU	32bit Cortex-M4 processor					
ELECTRICAL						
Rated Input Voltage	12VDC					
Maximum Power Consumption	XPC616：16.8W					
	XPC608：12W					
	X632：16.8W					
OPERATIONAL ENVIRONMENT						
Storage Temperature	-34.5° C to 65.5° C					
Operating Temperature	0° C to 50° C					
Humidity	5% to 95% without condensation					
Protection	IP20					
Dimension (L x W x H)						
XPC616	280*115*47.7 mm					
XPC608	280*115*47.7 mm					
X632	157.5*115*47.7 mm					
STANDARDS AND APPROVALS						
certificate	• BTL	B-AAC				
	• CE	EN 60730				

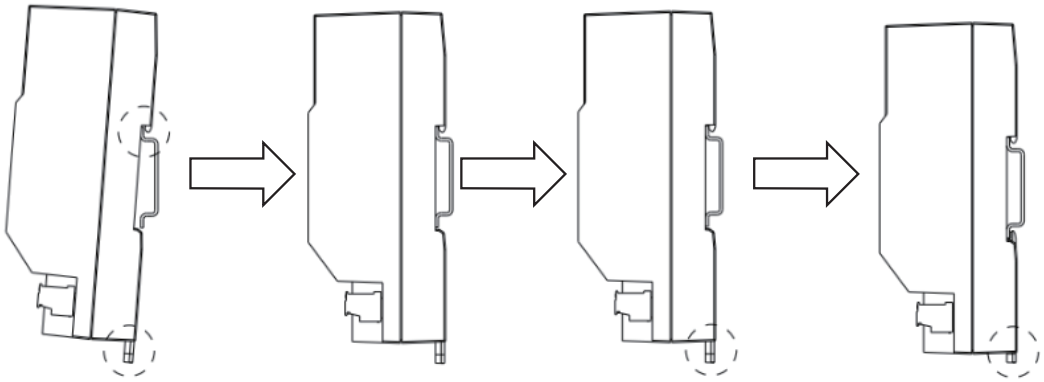
PRODUCT SPECIFICATION

CLOCK	
Operating Range	24 hours, 365 days, perpetual calendar
Power-off Retention	72 hours at 0 ~ 50° C
Communication Interface	
Ethernet	XPC616/ XPC608. 1 RJ45 port, 10/100Mbps auto-negotiation. It is recommended to use Cat5e or higher-grade network cables.
RS485	XPC616/ XPC608. 3 RS485 ports, supporting up to 8 Modbus RTU expansion devices and 30 RS485 panels. It is recommended to use 18-22 AWG shielded twisted pair cables.
S5bus	XPC616/ XPC608/ X632. 1 S5bus port. It is recommended to use 18-22 AWG shielded twisted pair cables.
Input and Output	
Line DO	Line DO: 15✕Line DO Voltage: 196-253VAC Current: 8A (resistive load), 6A (incandescent load), 4A (fluorescent load) at 230VAC 1✕Line DO (Controlled Socket) Voltage: 196-253VAC Current: 15A (resistive load) at 230VAC
Dry contact DO	Output Type: Isolated, dry contact relay output Voltage: 24VAC (50-60Hz) / 24VDC Current: 1A AC/DC
DO	Output Type: Non-isolated Voltage: 12VDC Current: 40mA continuous current
DI	Input Type: Dry contact, open circuit ≥3000 ohms, closed circuit ≤300 ohms Voltage: 12VDC Current: Maximum short-circuit current 2.4mA
UIO	Output Type: AO analog voltage output, DO non-isolated digital output, DI digital input, customizable DO Voltage: 12VDC Current: 40mA continuous current DI Open circuit ≥3000 ohms, closed circuit ≤300 ohms Voltage: 12VDC Current: Maximum short-circuit current 2.4mA AO Voltage: 0-10V Current: 10mA
STA LED	No light: Product not powered, LED damaged, insufficient power supply Steady green: Insufficient power supply; checking power supply, approximately 3.5 seconds Slow flash (1 second on, 1 second off): Normal operating state Slow flash (0.5 seconds on, 0.5 seconds off): Device alarming; downloading configuration Red display: Hardware damage
RS485 LED	TX light flashing: RS485 is transmitting data RX light flashing: RS485 is receiving data

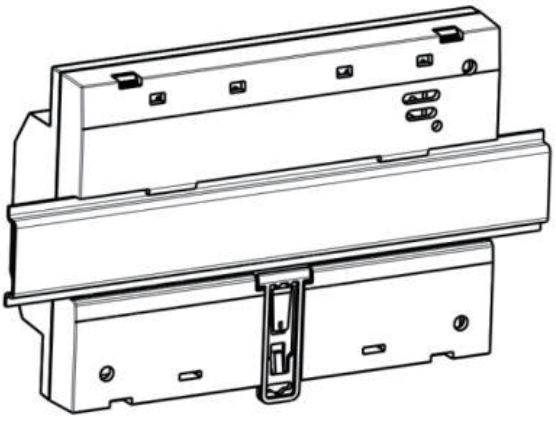
HOUSING

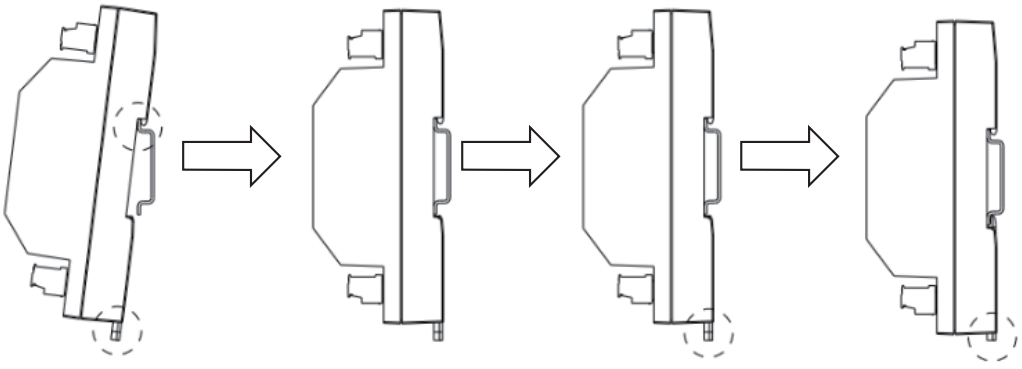
XPC616 / XPC608





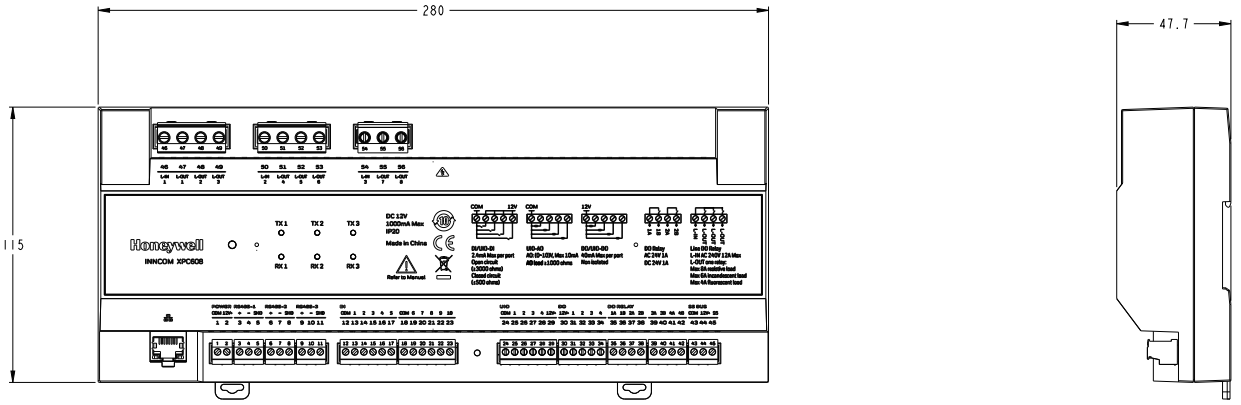
X632



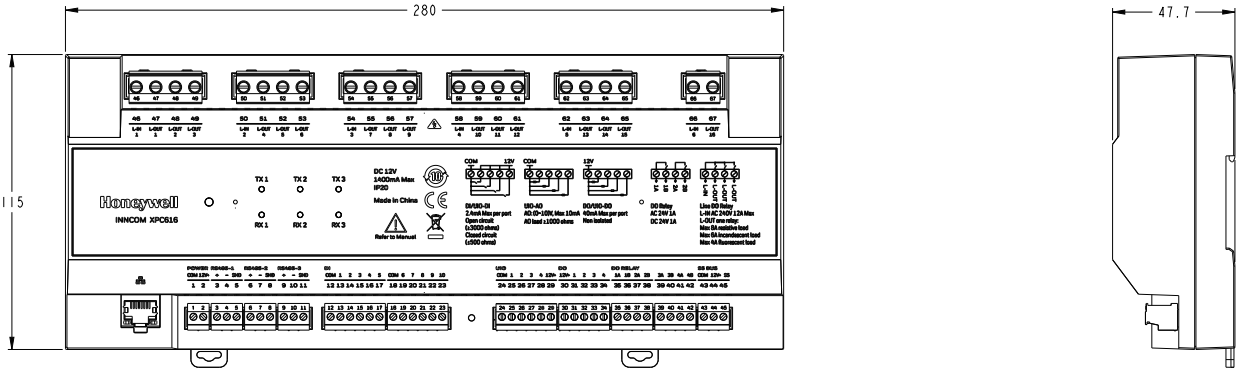


DIMENSIONS(unit: mm)

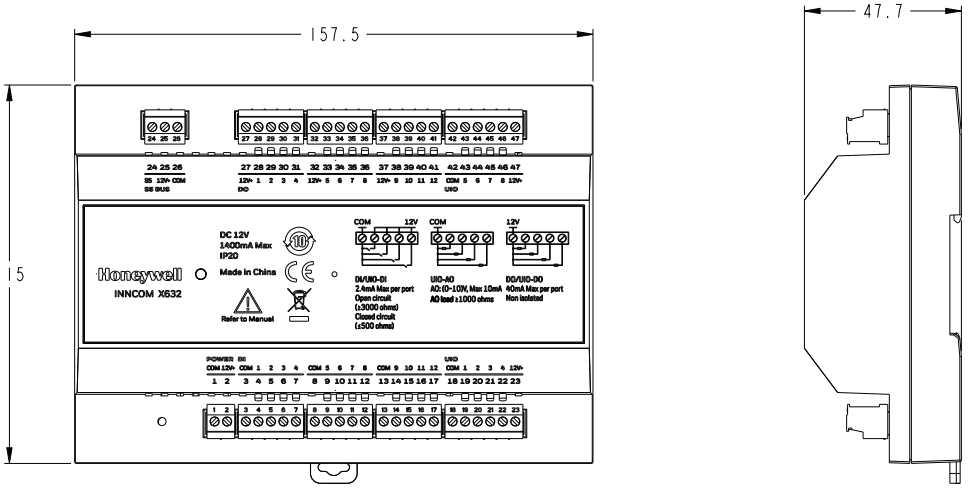
XPC608



XPC616



X632



PART NUMBERS

Model	Product description
XPC616	Honeywell INNCOM RCU (Room Controller) XPC616 integrates the BACnet IP Building and Control Network open protocol and Modbus TCP industrial open protocol, featuring an Ethernet interface with excellent network integration capabilities. It includes 4 universal input/output channels, 16 Line DO, 10 DI, 4 DO, 4 Dry Contact DO, and 3 RS485 integrated communication interfaces. It supports expansion of up to 8 Modbus RTU devices and 30 RS485 communication panels, with S5 bus communication support, fully meeting the needs of distributed control and networked integration projects. The program polling cycle time is 100 milliseconds, ensuring efficient and stable operation of the control system.
XPC608	Honeywell INNCOM RCU (Room Controller) XPC608 integrates the BACnet IP smart building open protocol and Modbus TCP industrial open protocol, featuring an Ethernet interface with excellent network integration capabilities. It includes 4 universal input/output channels (UIO), 8 Line DO, 10 DI, 4 DO, 4 Dry Contact DO, and 3 RS485 integrated communication interfaces. It supports expansion of up to 8 Modbus RTU devices and 30 RS485 communication panels, with S5 bus communication support, fully meeting the needs of distributed control and networked integration projects. The program polling cycle time is 100 milliseconds, ensuring efficient and stable operation of the control system.
X632	Honeywell INNCOM IO (Expansion Input and Output Module) X632 integrates the S5 communication protocol and serves as an extended IO for XPC controllers. It includes 8 universal input/output channels (UIO), 12 DI, and 12 DO.

For more information

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THE FUTURE IS WHAT WE MAKE IT

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