

Yoswit Tavern RCU Datasheet

Model: YO780-4G-4G-2GV-2GD-2GD (R2W)

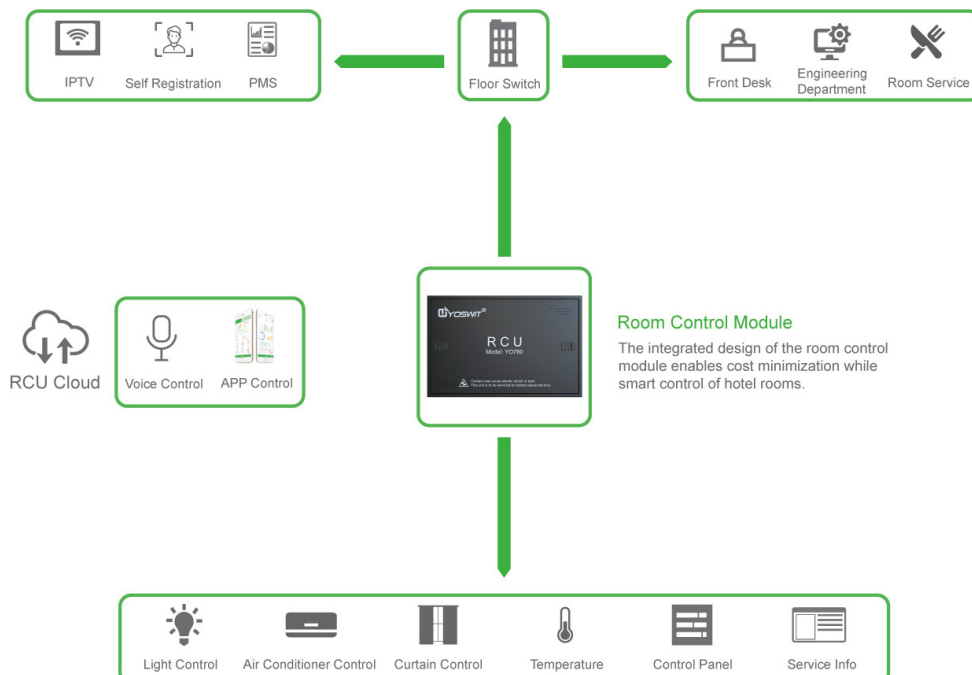
Revised: 01-12-2024



A Smart Solution for Hotel Room Automation

Yoswit RCU is an innovative hotel automation solution that revolutionizes the guest experience and streamlines hotel management. With its TCP/IP communication protocol, it provides comprehensive control and monitoring of various devices. The RS485 interface enables seamless integration with third-party systems in hotels, allowing connectivity with a wide range of devices and systems. Guests can effortlessly manage lighting, temperature, curtains, and more through our Yoswit app, enhancing their stay. This automation optimizes energy efficiency and cost savings by automatically adjusting controls when the room is unoccupied. It offers the versatility of wired and wireless options, ensuring compatibility with both types of switches. Seamlessly integrating with hotel management systems, it enables centralized control and improves staff efficiency. Yoswit RCU enables hotels to create personalized and comfortable atmospheres, promptly respond to guest requests, and streamline operations for an exceptional guest experience.

RCU Framework



Key Features and Benefits

- Connectivity with Third-Party Systems
- Integration with Hotel Management Systems for Central Control
- Wired and Wireless Compatibility
- Energy Efficiency and Cost Savings
- Conjunction with Different Modules, Enables Control Over Various Aspects, Including:
 - 4-Type of Output Modules
 - Lighting, Curtains, TRAIC and 0-10V Dimming Control
 - Thermostat
 - 2-Pipe/4-Pipe FCU with Up to a 3-Speed Fan
 - Heat, Cool, and Ventilation Modes
 - Smart Electronic Doorplate
 - Doorbell, DND, and Clean Room
 - Smart Outlet
 - Smartly Control Conventional Appliances Using Yoswit App
 - Real-Time Monitor the Electricity Usage of Devices
 - Smart DC Switch
 - Convenient Control of Full Fixtures
 - Flexibly Program the Functions
 - Present Detection Sensor
 - Occupied and Checked-In
 - Occupied-Vacant and Checked-Out

Various customized smart hotel app for more functions.



Smart Room



Chatbot



Room Service



Facilities Reservation



Events & Tickets



Hotel Facilities Info



Traveler Shop



VIP Program



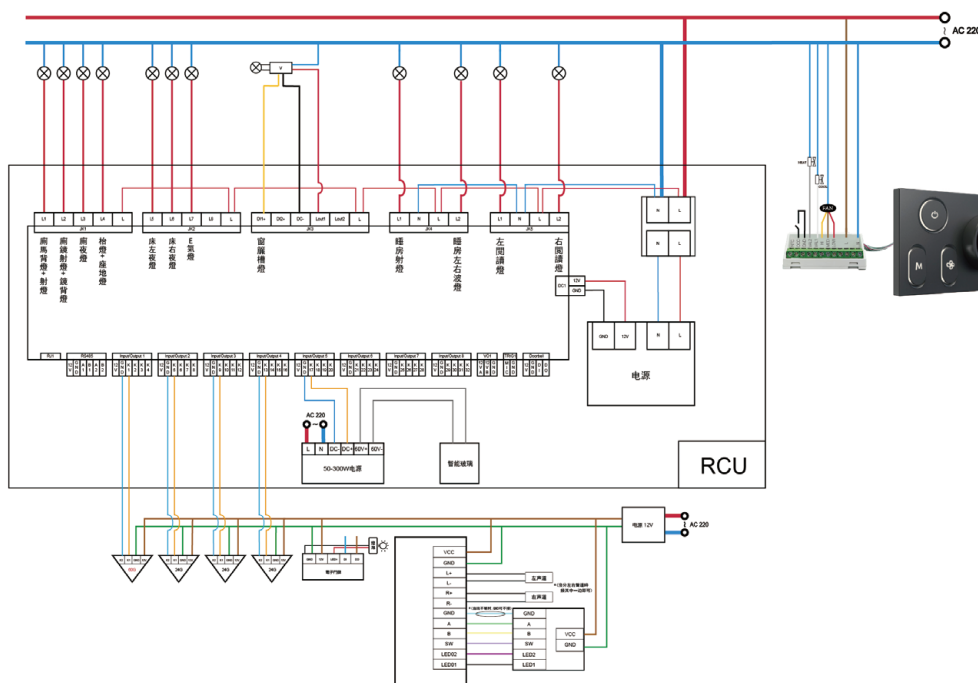
Front Desk Service



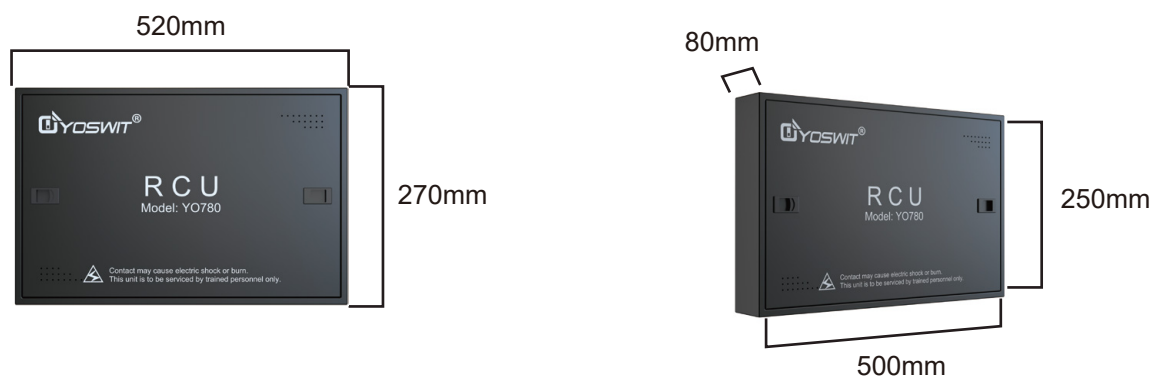
Check In & Check Out

Product Specifications

Example of Wiring Diagram:



Specification:



General Specifications

Product Name	Yoswit Tavern RCU
Model	YO780-4G-4G-2GV-2GD-2GD (R2W)
Revision	V1.0
Compliance	CE, FCC, RoHS
Manufacturer	Designed by Yoswit in Hong Kong, China / Assembled in Guangdong, China
Warranty	Two Year Limited Warranty (*Details available on the Product Warranty and Limitations of this datasheet)

Wireless

Frequency	2.4GHz
Connection	Wifi 2.4G / BLE 5.0
Range	Open Area: >50m / Interior: 3-20m

Mechanical

Operating Temperature	-20°C to 85°C
Operating Humidity	0-95% RH, Non-Condensing
Ingress Protection (IP)	IP20
Operation	APP, Input Unit
Measurement	520mm x 270mm x 80mm

Electrical

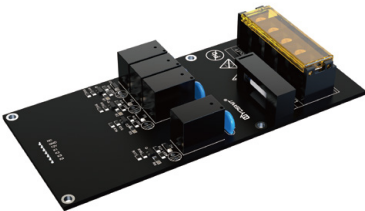
Operation Power	100-240V AC (50/60Hz)
Power Consumption	≤3W

APP

RS485	2-Channel, Baud Rate: 9600
Network	1-Channel, Ethernet 10/100Mbps
Input / Output	32-Channel, Low-Voltage Dry Contact Input or DC 3.3V Output
12V Output	2-Channel, DC 12V Output, Controllable
Trig Out	1-Channel, Dry Contact Input
Doorbell	1-Channel, Dry Contact Output

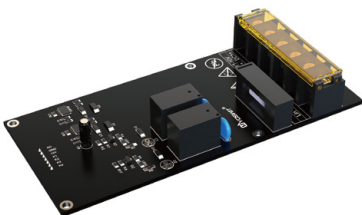
Product Details:

- JK1-JK5, for the AC output module, it supports 4 types of output modules, allowing flexible combinations based on the actual needs of the room:
 - Curtain Switch 2-Channel Module
 - Light Switch 4-Channel Module
 - TRAIC Dimmer 2-Channel Module
 - 0-10V Dimmer 2-Channel Module
- JK6-JK16, it supports low voltage dry contact input or DC 3.3V output control signals, enabling personalized expandability and functionality:
 - Socket 86 DC Smart Switch
 - Infrared Sensor
 - Electronic Magnetic Door Lock
 - SOS Switch
 - Electronic Doorplate
- Doorbell port, supports 12V wired ding-dong electronic doorbell
 - Trigger port, supports music control in the room
 - 12V output port, supports 12V switch controlled output
 - RS485 port, supports 2-channel RS485 communication
 - Ethernet port, supports TCP / IP protocol, enabling integration with hotel systems for network connectivity
 - Paired with DC switch panel for wall control and can be remotely controlled by Yoswit apps
 - The mainboard is powered by a 12V MingWei power supply, which features input reverse connection protection. The MingWei power supply has an input range of 100-240V AC and an output of 12V / 2.1A max



YO780-4G

Switch Module Specification	
Light Switch Module	
Model	YO780-4G
Operation Power	DC12V±10%
Power Consumption	≤2W
Output Channels Count	4
Output Mode	AC Live Output (Output Voltage Follows Input Voltage)
Max Switching Current	Total Output 6A , Per Channel 6A
Size	135mm x 60mm x 1.6mm



YO780-2GV

Switch Module Specification	
0-10V Dimmer Module	
Model	YO780-2GV
Operation Power	DC12V±10%
Power Consumption	≤2W
Output Channels Count	2
Output Mode	Adjustable DC Voltage Output, AC Live Output (Output Voltage Follows Input Voltage)
Max Switching Current	Total Output 6A , Per Channel 6A
Size	135mm x 60mm x 1.6mm



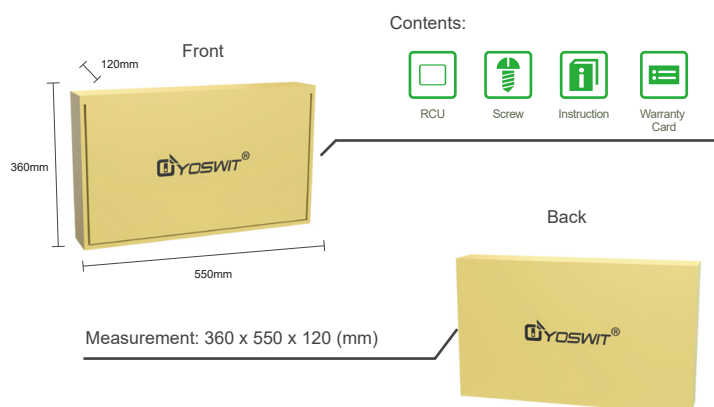
YO780-2GD

Switch Module Specification

TRAIC Dimmer Module

Model	YO780-2GD
Operation Power	DC12V±10%
Power Consumption	≤2W
Output Channels Count	2
Output Mode	AC Live Output (Output Voltage Follows Input Voltage)
Max Switching Current	Total Output 2A , Per Channel 1A
Size	135mm x 60mm x 1.6mm

Product Package



Outer Box



Quantity Per Box: 2 Pack / Box
Measurement: 58 x 36 x 25 (cm)

Product Warranty and Limitations

Yoswit brand products guarantee for a period of 2 years warranty from the date of purchase. During the warranty period and in the event that a defective product is identified (non-human factors), Yoswit will provide free maintenance. Damage beyond the warranty period or caused by improper use is not covered within the warranty, Yoswit will not bear any responsibility for repair, and will still provide users with a lifelong maintenance of paid services. If the products need to be repaired or returned to our company, an appropriate fee should be charged based on specific situation to cover the cost of replacement. Regardless of the warranty status, all shipping costs are borne by users.