

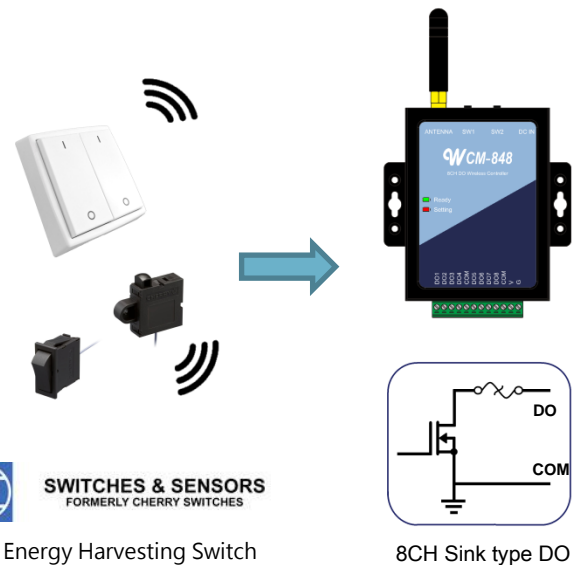
Features

- ZF Wireless & Energy Harvesting Technology, Support ZF Switch
- Up to 64 ZF wireless batteryless switches connected possible
- Easy configuration & installation with no wires no batteries
- 8 channels programmable DO (Digital Output)
- Auto recover the latest DO state after power on
- 16 DO-combined and 4 DO action for Quick Pairing
- Advanced combination output setting via Software Tool (UART TTL)
- Up to 30 meter wireless distance in buildings
- Wireless Frequency 915MHz(North America) or 868.3MHz(Europe)






Introduction

WCM-848 is a wireless 8 channels DO controller capable of multiple users configured with ZF Energy Harvesting Switch. ZF Energy Harvesting Switch requires no batteries or wires and long mechanical life (min. 100.000 cycles). It is easy to install, maintenance and energy saving. WCM-848 provides Quick Pairing function to pair switch via button on device easily and quickly. Use software tool can set more output combination via UART TTL cable. Combine WCM-848 with ZF switch are perfectly suited for use in Building Automation, Industrial Automation, Smart Home and Lighting.

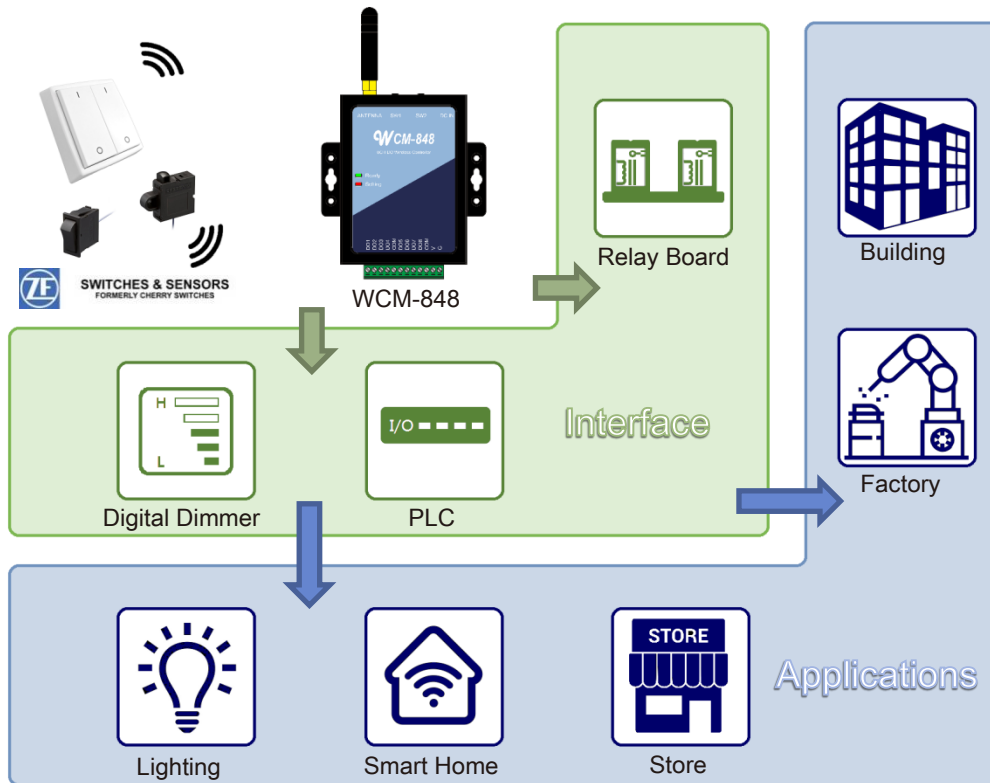


Specifications

Model Name	WCM-848
General Specifications	
Main Power Input	5Vdc,500mA or 7~12Vdc 500mA (optional)
Power Consumption	150mA@5Vdc
RF Characteristics	Frequency, 915MHz or 868.3MHz
	Sensitivity, Typ.-98dBm at 0,1% error rate (25°C)
	Transmission range, Indoor up to 30m
DO Interface	8 channels, 150mA sink-type, Vds 30Vdc max.
V Output	Depending on input voltage, 1.5A max
Temperature	Operating -10~70°C
Relative Humidity	80% max.
Dimensions	96mm (W) x 158.6mm(L) x 24.7mm(H)
Weight	130±5g

Supported ZF Switch List	
ZF Energy Harvesting Switch	
RF Rocker Switch	
AFIS-1003, 868 MHz	
AFIS-5003, 915 MHz	
RF Snap Switch	
AFIS-1002, 868 MHz	
AFIS-5002, 915 MHz	
1-way Push button	
AFIM-1007, ZF 868 MHz	
2-way Push button	
AFIM-1013, ZF 868 MHz With pushbutton cover	

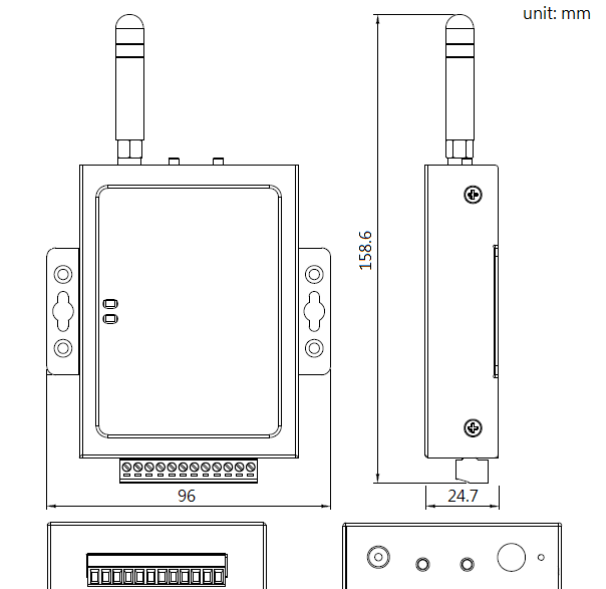
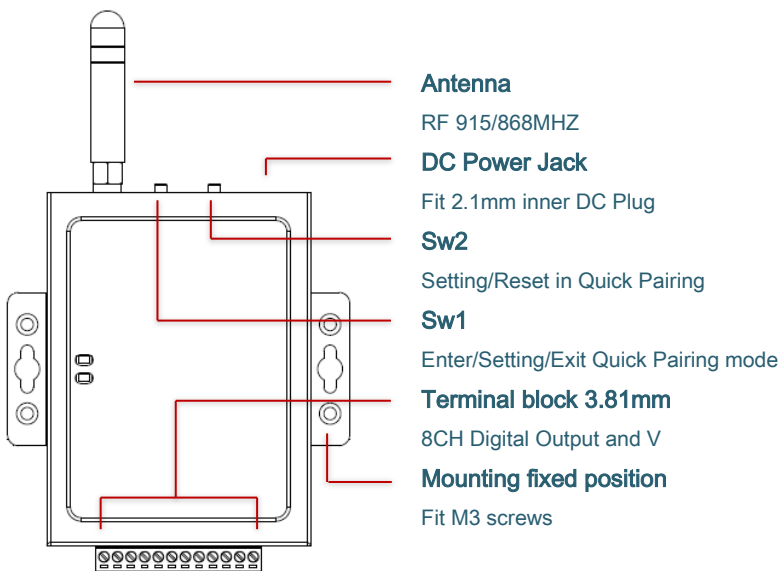
Applications



WCM-848 can be used in a variety of applications such as industrial automation and building automation, smart home or medical technology. Combine WCM-848 with other digital I/O products for efficient and convenient control of lighting, relay switch and digital device. It also compatible with any ARDUINO, RASPBERRY boards to extend application easily. For example, use WCM-848 with a digital dimmer module can dim lighting via ZF wireless switch. Flexible pairing allows the operation of several ZF switches with one WCM-848 and vice-versa.

Connections

Dimension Drawing



Ordering Information

P/N	Product Description	Operating Temperature	DC Input
WCM-848-NA-A	8CH DO Wireless Controller (915MHz) with ZF switch	-10 ~ 70 °C	5V
WCM-848-EU-A	8CH DO Wireless Controller (868.3MHz) with ZF switch	-10 ~ 70 °C	5V
WCM-848-NA-B	8CH DO Wireless Controller (915MHz) with ZF switch	-10 ~ 70 °C	7~12V
WCM-848-EU-B	8CH DO Wireless Controller (868.3MHz) with ZF switch	-10 ~ 70 °C	7~12V

Includes: • WCM-848 Controller x 1 • Antenna x 1