



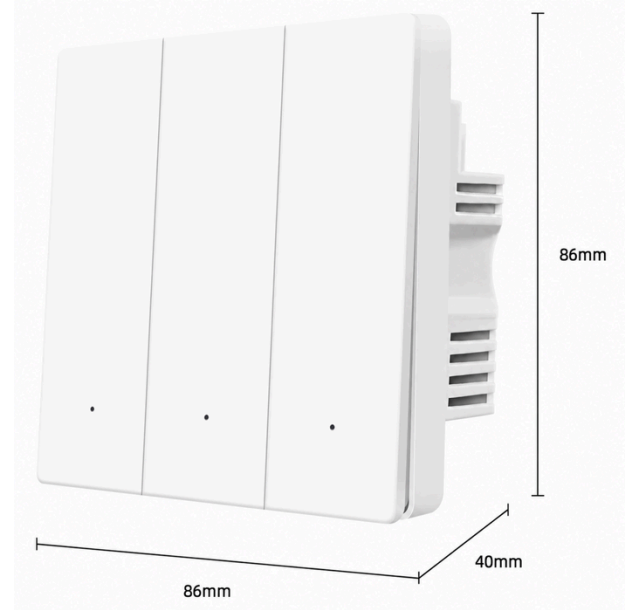
3-Channel WiFi Smart Switch

- RansNet Smart Energy Series

Model: **SE-CW3P**

The RansNet SE-CW3P is a 3-channel WiFi smart switch (Metering Edition) designed to integrate with the RansNet mfusion cloud platform and customer-hosted MQTT/TCP servers — fully self-managed and suitable for private LAN and dedicated network environments.

The SE-CW3P supports remote ON/OFF control per channel with full energy monitoring functions — including real-time current detection, timed energy reporting, cumulative usage statistics, power-off memory, and local scheduled/countdown tasks. Ideal for monitoring whether connected loads are operating normally.



KEY FEATURES

- Device status information query
- Remote ON/OFF control per channel
- Network config lock setting
- Button lock setting
- Device soft restart
- Factory reset / restore defaults
- Custom MQTT / Custom TCP server
- Energy data statistics
- Timed energy data reporting
- Energy counter reset
- Power-off memory
- Local scheduled tasks
- Local countdown tasks
- Input: 100–250Vac, 10A, MAX 2400W (800W/ch)

TECHNICAL SPECIFICATIONS

Electrical Parameters	
Input Voltage	100Vac – 250Vac
Working Current	10A
Rated Load	MAX 2400W (800W/channel)
Channels	3-channel independent control

Communication	
Communication	2.4GHz WiFi
Comms Module	ESP8266
Protocol	MQTT / TCP
Remote Range	Global (via IoT cloud platform)

APPLICATIONS

- Smart home & building automation
- Office equipment power control
- Remote facility & retail outlet monitoring
- Industrial device multi-channel switching
- IoT private/intranet deployments

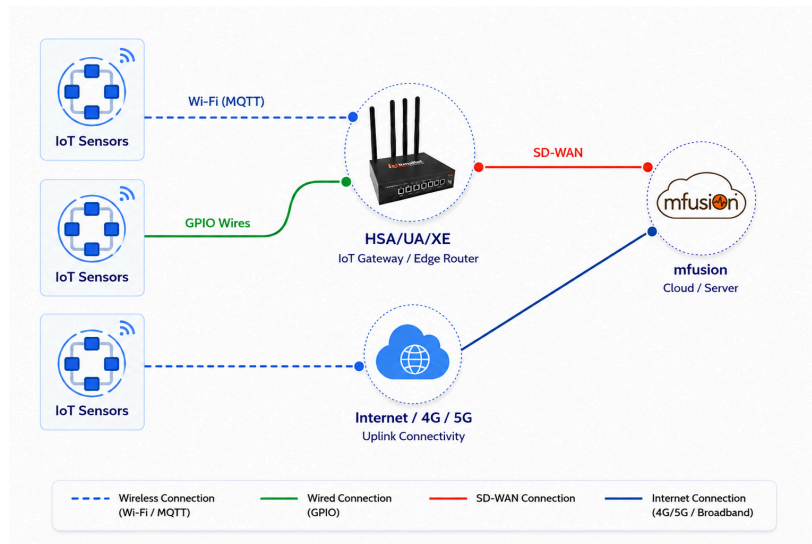
ORDERING INFORMATION

Model	Channels	Description
SE-CW1P	1	Single-channel WiFi smart switch with energy monitoring
SE-CW2P	2	Dual-channel WiFi smart switch with energy monitoring
SE-CW3P	3	Triple-channel WiFi smart switch with energy monitoring

SOFTWARE PARAMETERS – FIELD ATTRIBUTES

Field	Type	Description / Notes
info	String	Device type, MAC address, firmware version, switch state, config lock & button lock status
statistic	String	Current voltage, current, power, cumulative energy (kWh)
key1	int	Channel 1 ON/OFF control — 0: Off, 1: On
key2	int	Channel 2 ON/OFF control — 0: Off, 1: On
key3	int	Channel 3 ON/OFF control — 0: Off, 1: On
setting	String	Modify config lock, button lock, timed reporting interval, etc.
wifiLock	int	Config lock — 0: Off, 1: On
keyLock	int	Button lock — 0: Off, 1: On
restart	String	Device soft restart
reset	String	Factory reset / restore defaults

DEPLOYMENT ARCHITECTURE



Layer	Function
SE-CW3P	3-channel WiFi smart switch (Metering Edition); supports remote ON/OFF per channel, real-time current detection, power-off memory, local scheduled/countdown tasks via MQTT/TCP.
RansNet Edge Router	Secure WiFi/4G/5G/VPN uplink for distributed sites. Bridges SE-CW3P to MQTT broker and mfusion cloud platform.
SD-WAN	Securely transports IoT data across any private/public underlay infrastructure.
RansNet mfusion Platform	Centralized monitoring, alarms, energy data trends, remote control, multi-site & tenant management, API integration.

