

**WIRELESS CORE-WITH BATTERY AND LTE**  
CH-WMP-COR-300  
v3.0.0



**Product specification:**

**Wireless smart home controller with battery and LTE-compatible SIM card, supports the RF, Zigbee 3.0, Z-Wave and Wi-Fi protocols**

|                                   |  |
|-----------------------------------|--|
| <b>Protocol</b>                   | Zigbee 3.0 / Z-Wave  |
| <b>Network interface</b>          | WAN/LAN.   |
| <b>USB</b>                        | USB 2.0  |
| <b>SIM card</b>                   | Micro SIM card   |
| <b>SD card</b>                    | 128 GB (1 pcs)   |
| <b>Indicator LED lights (RGB)</b> | 1), Power & Battery LED 2), Wireless LED 3), LTE indicator |
| <b>Supported protocols</b>        | Zigbee 3.0 ,Z-Wave,Bluetooth 5.2 ,Wi-Fi 2.4G/5G            |
| <b>Aerial antenna</b>             | Zigbee/BLE: PCB Antenna Z-Wave/Wi-Fi: FPC Antenna          |
| <b>Battery</b>                    | Li-Ion (6000 mAH)  |
| <b>RTC</b>                        | Real-time, built-in clock with battery power supply        |
| <b>Hardware encryption</b>        | ECC608   |
| <b>Power consumption</b>          | 500 mA@5V  |
| <b>CPU</b>                        | Quad-core Cortex A35                                       |
| <b>RAM</b>                        | 2 GB   |
| <b>eMMC</b>                       | 8 GB   |

| Zigbee 3.0           |       |         |        |      |
|----------------------|-------|---------|--------|------|
| Technical parameters | Value |         |        | Unit |
|                      | Min   | Default | Max    |      |
| Range                | 100   |         |        | m    |
| Low frequency        | 2400  |         |        | Mhz  |
| High frequency       |       |         | 2483,5 | Mhz  |
| Modulation           |       |         | OQPSK  |      |
| Transmitter output   | 17,5  |         |        | dBm  |
| Receiver sensitivity | -94   |         |        | dBm  |
| Broadband            | 5     |         |        | Mhz  |

| Z-Wave               |       |         |      |      |
|----------------------|-------|---------|------|------|
| Technical parameters | Value |         |      | Unit |
|                      | Min   | Default | Max  |      |
| Range                | 100   |         |      | m    |
| Frequency            |       |         | 916  | Mhz  |
| Transmitter output   |       |         | 13   | dBm  |
| Receiver sensitivity |       |         | 97,5 | dBm  |

| Bluetooth            |       |         |        |      |
|----------------------|-------|---------|--------|------|
| Technical parameters | Value |         |        | Unit |
|                      | Min   | Default | Max    |      |
| Range                | 150   |         |        |      |
| Low frequency        | 2400  |         |        |      |
| High frequency       |       |         | 2483,5 |      |
| Modulation           |       |         | GFSK   |      |
| Transmitter output   | 19,5  |         |        | dBm  |
| Receiver sensitivity | -80   |         |        |      |
| Broadband            |       |         | 2      | Mhz  |

| LoraWAN (optional)   |       |   |      |      |
|----------------------|-------|---|------|------|
| Technical parameters | Value |   |      | Unit |
|                      | Min   | Default   | Max  |      |
| Frequency support    |       | RU864, IN865, EU868, US915, AU915, KR920, AS923 |      |      |
| Transmitter output   |       |   | 27   | dBm  |
| Receiver sensitivity |       |   | -139 | dBm  |

| Environmental characteristics |               |
|-------------------------------|---------------|
| IP protection                 | IP22          |
| Working temperature           | -10°C - +60°C |

| Logistics data |               |
|----------------|---------------|
| Weight         | 592 g         |
| Size           | 180x180x77 mm |



**CE certificate number:**  
 AOC RSHA211201004-03

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Wiring plan

