



The device serves as a gateway between the IP network, the ZigBee and BLE MESH wireless network. It allows to organize a wireless network of sensors, actuators and automation equipment into a single system for collecting and processing information using cloud computing

Device Name "OMO HUB PRO NEO 1.0"

Normal conditions of use

Rated temp. - 0...50°

Extreme temp. -5...+55°C

Nominal Humi .- 30-50%

Nominal Humi. - 25-90%

Atmospheric pressure - from 710 to 785 mm Hg.

Specifications

Physical Interfaces

- Power socket - 1 pc. DC 5.5 / 2.1 mm.
- USB-C host/slave for software upload - 1 pc.
- Ethernet socket for Hub Internet connection- 1 pc. RJ45 8P8C.
- HDMI Micro jack for monitor connection - 1 pc.
- Socket for connecting an external wired relay with connector detecting function via closed loop - 1 pc. RJ-11.
- Socket for connecting an external wired opening sensor - 1 pc. RJ-11.

Indication

- Side Bars indicators on front side - RGB LED.
- OMO Logo indicator on front side - RGB LED.
- ZigBee Act indicator near the antenna connector on the side.
- LTE Act indicator near the antenna connector on the side.

Computing module

- Module type - SOM RK3328.
- RAM size - 2 Gbyte RAM.
- ROM size - 32 Gbyte eMMC.
- Type of interface for downloading operational system software - USB Slave.
- Type of connector for firmware upload - TC2050-IDC-NL.
- OTA Remote Software Update – Supported

- **ZigBee**
IEEE802.15.4 ZigBee module
Module type - EFR32MG21 omo.ubm-01
Module connection interface - UART.
Module firmware upload interface - SWD.
Frequency band - 2.4GHz
Transmission rate - 250Kbit/s
Type – OQPSK
Antenna Type - External. Antenna Gain: < 5 dBi
- **Bluetooth**
Bluetooth Compatible with Bluetooth 5.0 and Bluetooth mesh specification
Model Name: DSM-055
IEEE802.15.1 BLE module
Module type - EFR32BG21A010F768IM32-B
RF center frequency - 2.45 GHz.
- **LTE**
LTE module - Quectel EC25 Series,
FDD Frequency band: B2/B4/B5/B12/B13/B14/B66/B71
Type of SIM card connector - Nano SIM ETSI 4FF.
The SIM card connector is installed on the hub's printed circuit board in the fixed place
- **Ethernet**
10/100Mbps Internet port
- **Accessories**
Adapter Input: 100 – 230 V AC Output: 12 V DC
Ethernet patchcord cable - RJ45 – RJ45 2 m

Uninterruptible Power Supply

Battery type - Li-ion 18650
Battery Model – YJ 18650-3C/2P
Nominal Voltage: 3.7 V MAX Charging Voltage: 4.2V Capacity: 2600 mAh.
Estimated work from battery source - at least 3 hours.

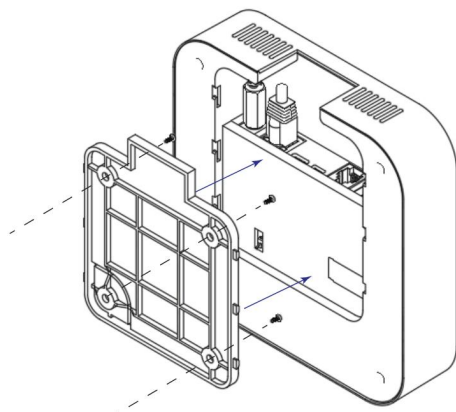
Case material - ABS plastic

Weight: XXX g

Dimensions: XXxXXxXX mm

Installation

Screw: M4*25 *4



FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

To comply with RF exposure requirements, a minimum separation distance of 20mm must be maintained between the user's body and the device, including the antenna.