

## The next level for multifunctionality

VAiOS WAC4N is the next level of highly functional controllers from VAIOS.

The WA4 and WAC4 controllers, successors to the M1 and E1 prototype models, have established themselves as the most flexible and workable hardware-level solution for the flexibility sought in building custom or structurally-ready systems. This has happened due to the fact that in VAIOS we have been able to create a product that covers all automation needs such as signal reception and command transmission in such a way as to cover the whole spectrum of building, business and industrial automation.



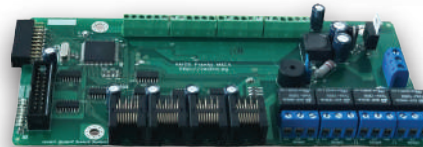
WAC4N



M1



WA4



WAC4

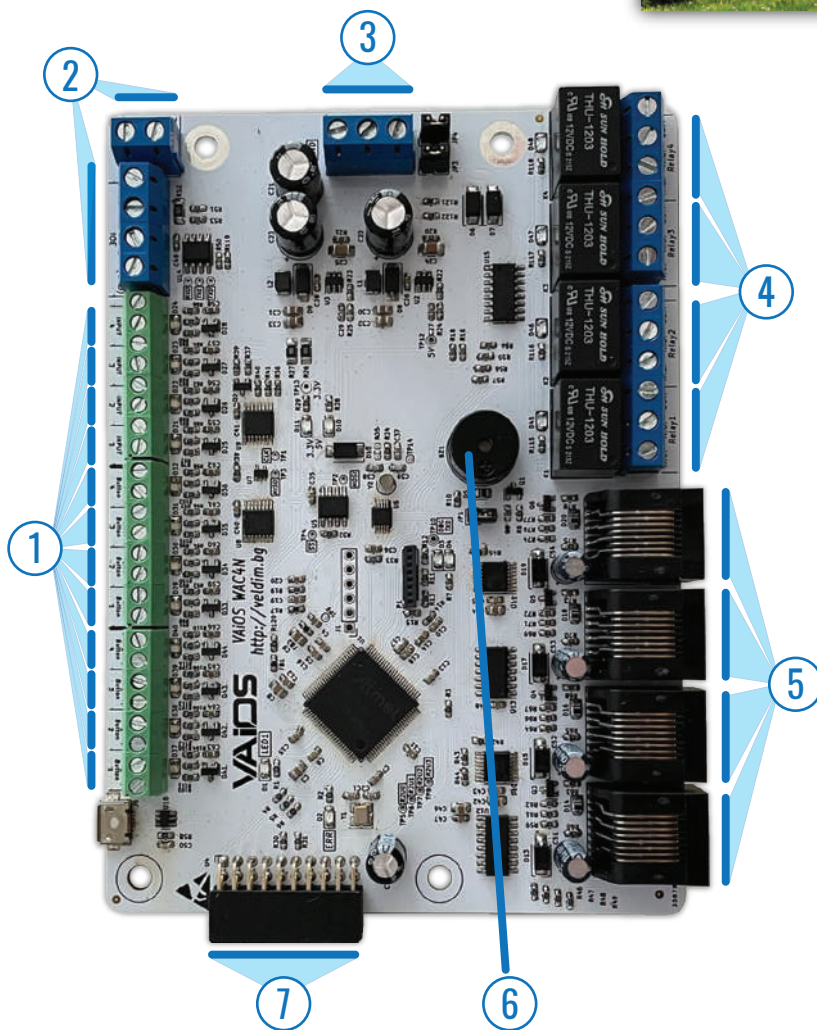
Now we introduce WAC4N, which is the latest product from VAIOS. The controller has improved parameters of communication speed and reliability.

VAiOS systems are web-based. The communication of WAC4N with MSC master controller is done through encrypted connection. This provides one side of security in VAIOS products. When a custom modification is requested and a direct connection to the Internet is made, the controller communication is implemented via SSL level security, identical to that used in banking software.



# VAiOS WAC4N - the right hand of smart hardware

The VAiOS WAC4N is the highest-end controller in the VAiOS product range. Its state-of-the-art design and capabilities make this product a leader in its field. The controller's communication is both web-based, allowing the system to be contacted from anywhere with internet access, and off-line, allowing systems built with it to operate locally. It has the ability to operate as a stand-alone controller with web-based or off-line software, or as part of more comprehensive and complex VAiOS branded smart systems. This makes it even more widely applicable. At the hardware level, the controller has a number of communication ports for controlling end devices. It also has the option of connecting to expansion modules or other controllers to increase its range.



## Quick look

- ① ▶ 12 programmable inputs
- ② ▶ Connector for expansion module
- ③ ▶ Power supply clamp
- ④ ▶ 4 relays
- ⑤ ▶ 4 brooch RJ45 buxies
- ⑥ ▶ Zumer
- ⑦ ▶ Connector for LAN module

## Where the controller VAIOS WAC4N finds application in the smart systems?

The VAIOS WAC4N controller's wide range of capabilities and hardware support make it applicable in any smart system built for process automation. The combination of 4 relays and 12 programmable inputs make it the preferred choice when building:

- ▶ Smart Home systems;
- ▶ Smart Parking Systems;
- ▶ Access control and time and attendance systems;
- ▶ Office Automation;
- ▶ Hotel Systems;
- ▶ Hospital Systems;
- ▶ Industrial Automation;
- ▶ Custom Automation.



The relays in the controller can be used for access control for doors, windows, barriers and other devices controlling and providing monitored access, as well as to control smart appliances and control their operation remotely.

The WAC4N can control and monitor the operation of magnets for water or any other type of transmission network. Thus, the systems can monitor and control consumption.

These and other functionalities provide the possibility of building automated scenarios - one of the conveniences of smart systems today.

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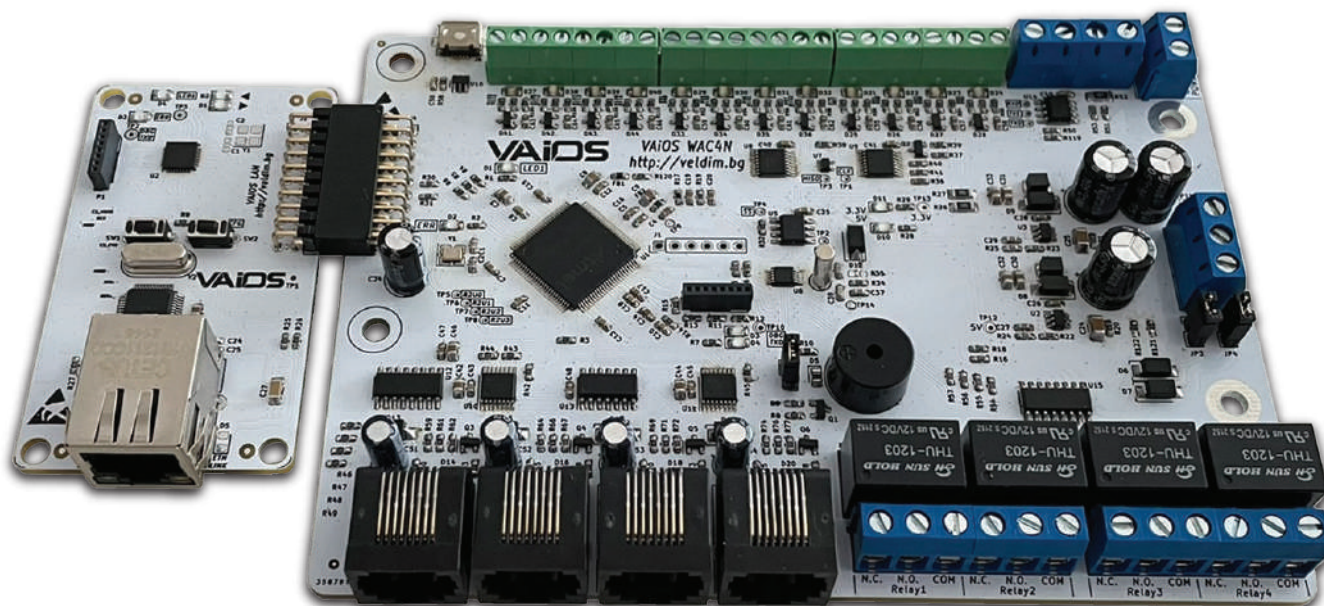
**SMART HOME  
COMFORT  
SCENARIOS**



**SECURITY  
SCENARIOS  
IN THE SMART HOME**

## VAIOS WAC4N

### List technical characteristics



- ▶ Environmental class: 1
- ▶ Compatible operation with battery: Yes.
- ▶ Inputs: 12:
  - 4 pcs. exit button
  - 4 pcs. status button
  - 4 pcs. emergency button
- ▶ Outputs: 4:
  - 4 pcs. NC
  - 4 pcs. NO
- ▶ Ports for reading devices: 4 pcs. (RJ45)
- ▶ Tracking of events: Yes (until the server memory is full)
- ▶ Memory of recorded users: to 8000 (cards, chips)
- ▶ Maximum current through contacts of relay: 3.0A
- ▶ Maximum relay voltage: AC 120V or DC 60V
- ▶ Input voltage: 12DCV
- ▶ Consumption: 2.6W (22mA)
- ▶ Dimensions (mm) L:140 x W:100 x H:18
- ▶ Weight without LAN module: 195 gr.
- ▶ Weight with LAN module: 260 gr.
- ▶ Work temperature: from -20°C to +65°C
- ▶ Light LED indication: Yes
- ▶ Operating humidity: from 10% to 90% RH
- ▶ Communication:
  - by means of a LAN module
  - SSL
  - server management
- ▶ Adding relay expanders: Yes.



# VAIOS WAC4N Connection diagram

Socket for connecting a LAN module

Connectors for RJ45 sockets for readers/ keyboards or remote module

The inputs work on the principle of dry contact

Voltage Controlled (Dry Contact) Locking/ Actuator Relays

Controller power terminal

Connection bushings on expander

