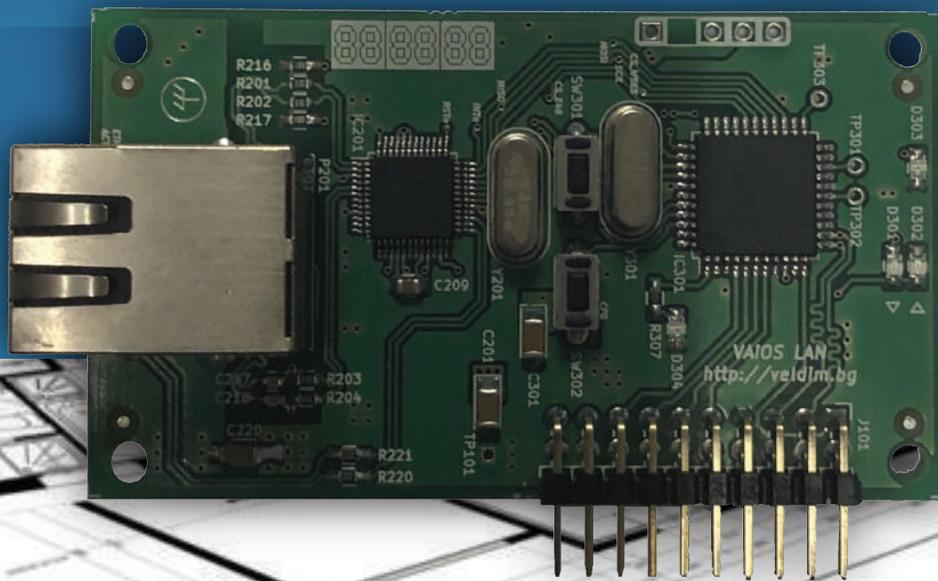
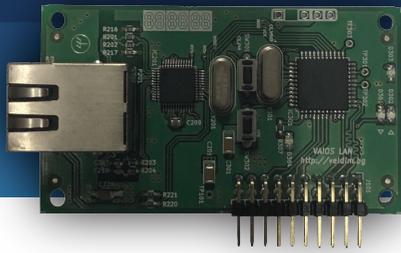


Veldim All in One Solution  
**VAiOS**



# VAiOS LAN

## LAN encrypted module



## When security is a priority

The 21st Century is the most dynamic time of human history. A number of discoveries and innovations have taken place in recent decades that have brought society to a new level. Privileges fell to communications, ways in which we connect and communicate and last but not least - the beginning of the revolution in automation.

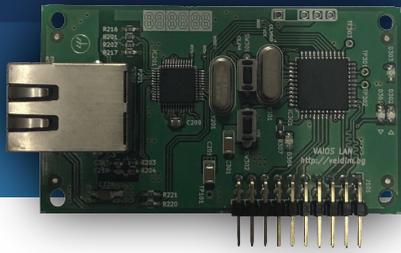
Along with the benefits appeared ill-intentioned users of social development with different purposes. These malicious results can unite under the popular name - hacking systems.



To ensure the required level of security and protection, we used 2-level software protection.

- > We secured the software platform through SSL communication
- > Additionally, we created a LAN module that encrypts the communication between the controllers and the server.

The two levels of security make the software virtually impenetrable.



## Overthrust to non secured software

As with any production, in automation did not take long before duplicates and falsifications of secured systems appeared. To be listed on the market, these "competitors" offer software products with a lower level of security or lack of it, so they can sell at much lower prices. This reflects positively on them in sales, but misled customers who do not know exactly what they are buying.

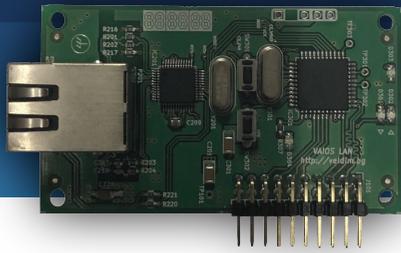
### ***What risk does a person take with an unsecured system?***

For decades, with the use of personal computers and laptops, we are all well aware of the need and benefits of installing trusted antivirus software to protect us from undesirable embedded "bugs," the removal of which would cost us money or worst - to misuse of personal information. However, there are few cases and users who put their security on cheaper but less reliable systems or do not install antivirus programs at all, in order to reduce their current costs or for other reasons. The consequences are familiar to everyone.



In the field of home and office automation, the situation is identical. . Despite the short history of three to four decades of building and home automation there are already a number of duplicates and unreliable software without any protection discredit the usefulness of automation systems.

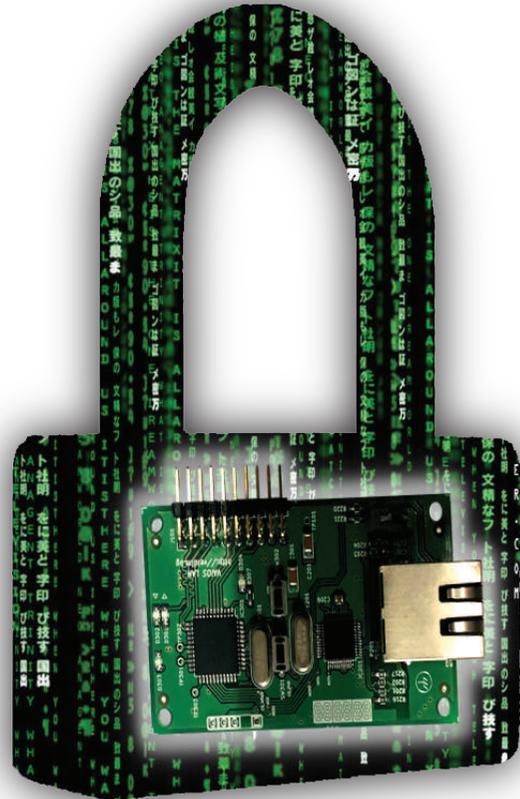
Familiar with these issues, we have developed our system with 2 levels of protection. Web-platform protection at the software level via SSL communication. And we also added protection in internal communications by integrating the VAiOS LAN module that encrypts the protocol through which the information is transmitted.



## What is the VAIOS LAN module?

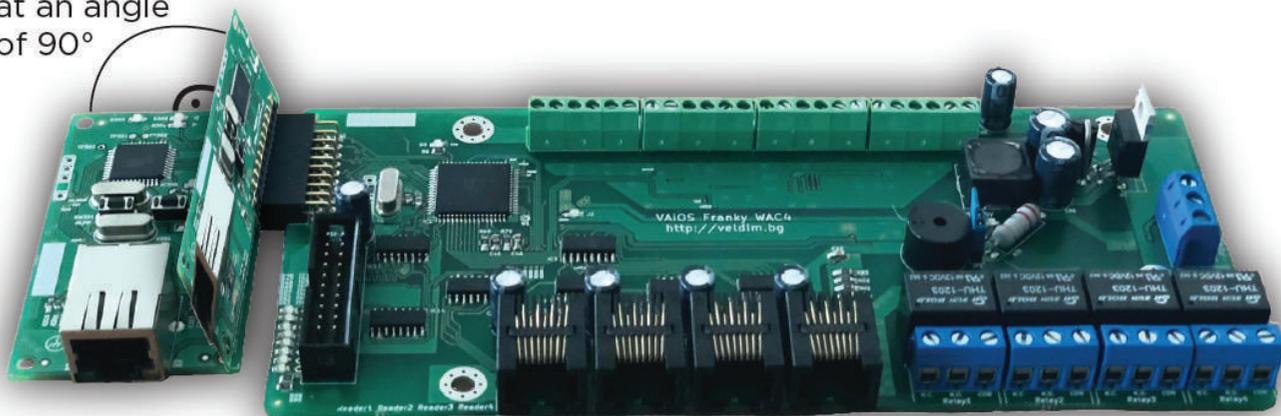
VAiOS LAN allows the system to be monitored and controlled via a web-based platform. Consumer protection is implemented on two levels:

- Through SSL communication of the software included in any VAIOS software product. This is communication used to build systems with the highest level of protection, such as financial institutions (banks and others)
- By encrypting the protocol by which they communicate with each other. This is achieved with the VAIOS LAN Module.

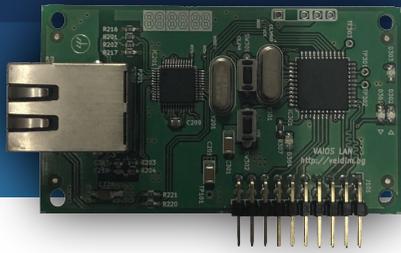


## Flexibility in installation

installation  
at an angle  
of 90°



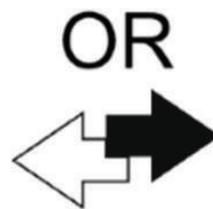
The installation of the module is performed on the controller (VAiOS WAC4), communicating with the system server (VAiOS MSC or another server). It is designed to be plugged into the controller plate or to a 90° angle.



## With or without a server

The VAIOS automation systems are built reliable and flexible not only in structure but also in budgetary terms. Each VAIOS system can be created and installed on both a local server and a cloud server.

With the local server (by adding and installing a VAIOS MSC Smart Controller or other on-site hardware server), the system has the ability to run, monitor and perform all the other features permanently and at all times. The availability of the local server allows the system's functionality to be available also when the internet connection to the site is interrupted, as the system operates on a local level but without web-monitoring and control until the Internet connection is restored.



VAiOS automation systems can also be built without a local server. In this case, the system performs the functionality of a cloud server accessed by the Internet connection. This automation solution is more budget-efficient and is a good choice for reliable internet. The downside is that when this internet connection interrupts, the system stops performing the functionality for which it is designed and automatically enters local access control mode. This ensures the smooth movement of people inside and outside the premises and the building, which is decisive in stopping the power supply or emergency situations.

Through the LAN module and web-based software, it is possible to expand the scale of automation not only on the modern level but also on what the customer has as a preference, according to their imagination.