

Wiren Board: solutions for monitoring the data centers and BS



The presentation is intended for:

- IT division Vice President
- Director of the Facilities
- Electrical Supervisor,
- Chief engineers of data centers and BS



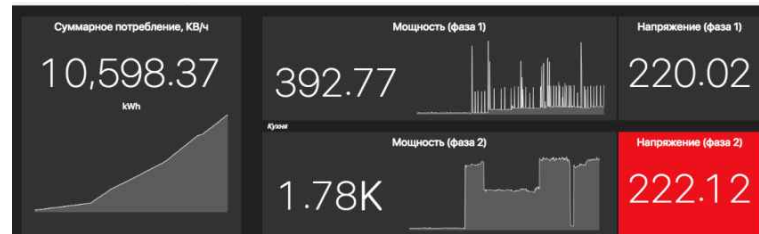
Developed in Russia
Produced in Russia



wirenboard.com/en

What we do: hardware and software complex

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- Power quality and input power
- The status of machines and switches **new!**
- Consumption per rack **new!**
- Temperature in each rack
- Indoor temperature and humidity
- Cell-by-cell battery monitoring
- Control of air conditioners, pumps, ventilation

- Quickly see the exact cause of faults
Manage reserves and resist system overload and equipment overheating
How many resources are spent on Yarovaya law and on the SWAP equipment?
- Save the data center in case of a blackout

Solving the problems	Benefits of our system
<ul style="list-style-type: none">Existing systems have no required functionality (there`s no system for all data centers, it`s impossible to evaluate resources)The need for modern management system of hardware resources of data centers and base stations	<ul style="list-style-type: none">Unified monitoring and management of all the data center systems (EPU, UPS, DGU, CCM)Instant indication of the exact location of failureIt takes no time for search and analysis of faultsPrediction of probable equipment failuresDisplays the replacement prediction of equipmentMonitoring of server equipment consumptionOn-premises, cloud system and iOS/Android

We offer

Data Center monitoring



20 000 ₺ per rack
for full functionality!
(see next slide)

Base Station monitoring



from 15 000 ₺ for bs

Monitoring the data center: a complete description

- temperature monitoring in the racks and corridors;
- measuring the power consumption of each rack;
- control of environment parameters: temperature, humidity, leakage, doors opening;
- automatic control;
- element-by-element control of lead-acid batteries in EPA/UPS.
- remote power restart of devices;
- out-of-band reserve monitoring through the GPRS/3G/NB-IoT channel of the controller;
- read the status of AVR, UPS and EPA;
- a survey of commercial meters, integration with other equipment via RS-485;
- data collection to the top-level system: SNMP, Modbus TCP, Zabbix, Grafana, SIMON

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for full functionality!
(see next slide)



Photo of the real project.

In the switchboard:

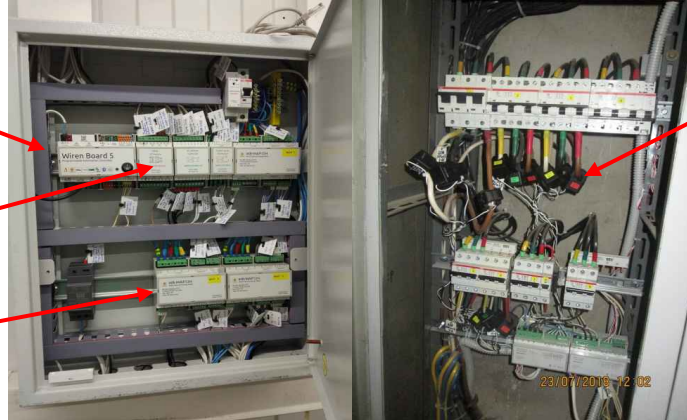
- the consumption of each rack is measured (using split transformers),
- the state of the machines is monitored.

Our devices in real-world installations (not just the data center)

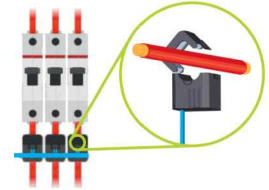
Wiren Board
Controller

WB-MR Relay
modules

12-channel
WB-MAP12 meters



Split
transformers
WB-MAP12



Wall-mounted sensor WB-MSW

- temperature and humidity,
- illumination,
- noise,
- the level of CO2 and VOC,
- motion sensor,
- built-in IR transmitter



WB-MIR IR control device

- write commands to it from the panel,
- play on controller commands



Data center implementation steps

a. The survey of the area for data center implementation

 2 days

b. Installation and integration of equipment

 20 days

c. Integration and adjustment to match TK

 20 days

d. The feedback, demonstration and staff training

 10 days

Full implementation period - 50 working days.

All work is carried out WITHOUT stopping the object!

Our devices are used at



- Ministry of transport (closed reference)
- Central Bank (closed reference)
- Data center of Technopark of St. Petersburg, in NTI SafeNet, the part national quantum network, which will be the part of "Eurasian quantum way".
- 6 container mining farms (300-400 kW each)
- MIPT-Telecom (data center 20 + 60 racks)

About us

- In-house development and production — Moscow region, Dolgoprudny.
- Manufacture of printed circuit boards — Zelenograd.
- Installation of electronic components — Zelenograd, Tula.
- 100% of development and production in Russia!
- We are open to new challenges and will be happy to find customers and partners among you!

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5 years

On the market

Over 50

product names

3500

Installations since
2013