



Hardware-software complex

# Energorouter

Software and hardware complex “Energorouter” - a system for management of building engineering systems (balance accounting of main consumers, management of alternative energy sources, discrete power cutoff, selection of optimal price category).

**Main functions:**

- There is a mobile application;
- Monitoring and data collection at the customer's site;

- Information visualization (readings, graphs, reports, related documentation);
- Management;
- Data Storage;
- Device Configuration;
- Remote software upgrades;
- Reports;
- Data Export.

**Hardware:**

- 19" 1U enclosure;
- Power supply unit (2pcs):
  - Main (220 AC);
  - Backup (48 DC);
- CPU1: 8-core 64-bit ARM processor (4xCortex-A76 and 4xCortex-A55);
- 16GB DDR4;
- SSD drive: 256 GB (NVMe SSD drive into M.2 PCIe2.0 slot);
- HDMI - for monitor connection;
- Switch - 10/100/1000 (6 Ethernet ports).

**Optional:**

- LTE modem #1 (USB) - for wireless data transmission.

## Software part:

- PostgreSQL - database;
- Network Server (if necessary) - installed and configured to work with devices operating via LoRaWan communication channel.

## Technical specifications

Name of characteristic	Value
<b>Power Specifications</b>	(85-265VAC) - main power input (36-72VDC) - redundant power input
<b>Power consumption</b>	max. 50 W
<b>Processor</b>	8-core 64-bit: 4 Cortex A76 cores and 4 Cortex A55 cores
<b>Maximum frequency</b>	2.4 GHz
<b>RAM capacity</b>	at least 8GB of LPDDR4/4x memory
<b>Flash memory for bootloader</b>	16 MB SPI
<b>Primary SSD drive (M.2 PCIe2.0 slot)</b>	256GB - SSD NVME NVME M.2 NETAC
<b>Enclosure</b>	metal 19" (482x250x44mm)
<b>Service life</b>	8 years
<b>Switch</b>	built-in 6-port managed 10/100/1000 Mbps
<b>Monitor connection port</b>	HDMI
<b>USB port</b>	2pcs
<b>Watchdog timer</b>	built-in
<b>Operating system</b>	Pre-installed Linux
<b>IoT platform</b>	Pre-installed Jcom-iot
<b>DBMS</b>	Pre-installed "PostgreSQL"