



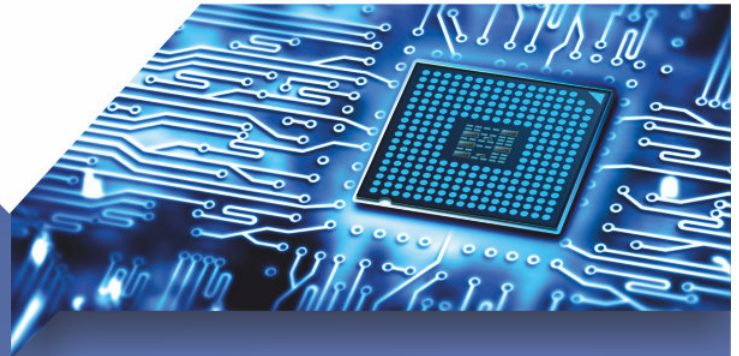
We have been awarded

22.05.2013:

Our company was the winner of the IV National Competition of Academic Entrepreneurship in the category of "Innovative Product", we obtained the title of "Academic Innovation Leader" for Bitcoin Miner product.

4.06.2014:

Honorable mention in the V National Competition for Academic Entrepreneurship in the category "Innovative Company".



Sidus Novum designs and produces electronic devices for your company. Our professional staff combines specialized knowledge and experience with the passion to create and find new solutions. Together we can reach innovations, create new business models or improve the solutions you already have.

Sidus Novum offers:

1. competitive prices
2. good time management
3. elasticity
4. compatibility

Our company provides dedicated solutions for home and industrial electronics based on FPGA chips. Both practical experience and theoretical background that we have in determining, designing and creating solutions in electronics make it possible to respond to the specific requirements of the customers.

Areas of business:

- Specific integrated FPGA minicomputers
- Meter of the electric network parameters built on the basis of the minicomputers, which are characterized by high computational power
- Design services for the B2B market, with particular focus on solutions with FPGA chips



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Key areas of services in Industrial and Consumer Electronics:

- Analysis of technical requirements and client's business goals and objectives
- Development of product specifications, visualization of the product
- Design of software and hardware architecture
 - Software and hardware development, along with directions how to evolve them
 - Software implementation and integration
- Testing equipment in the customer's environment
 - Software and hardware service
 - Software and hardware for customer's production environment
- Prototyping – our company is capable of bulding in a short time a prototype device based on customer's design
 - Production

Key areas of competences:

- Building minicomputers using chips based on different ARM chips such as STM32 family and Zynq from XILINX or other FPGA chips
 - Building embedded software based on FreeRTOS and Linux systems
- Rich software and HDL propritetary libraries for accelerated computing, video encoders and other dedicated solutions
- All aspects of three-phase network performance analyzing such as measuring of voltage, current, power, calculating the angles, frequencies, crest factors, power factors, etc.
 - RFID: UNIQUE and MIFRAME readers

Minicomputer

universal minicomputer for prototyping and rapid application development

- Based on STM32F407 CPU
- Interfaces: Ethernet 10/100MB, USB, microSD card slot, UART
- RTC with battery
- SRAM memory 2MB
- FPGA - Spartan6 from XILINX: XC6SLX9-TQG144
- SDRAM memory at Spartan6, 32MB
- 12V/1.5A power supply
- Software based on FreeRTOS with proprietary drivers



Bitcoin

reprogrammable device for cryptographic calculations with dedicated functionality for Bitcoin mining

- 2 x Spartan6SLX150
- 400 Mhash/ per device
- ~ 20 W Power consumption
- Ethernet direct access - no need for external PC
- Managed by FTP and WWW servers
- SD card for configuration storage – lets for dynamic FPGA reconfiguration

