

Pre-Certification Testing Software of AC-Powered Electronic Devices

How creating an application for testing AC-powered electronic devices helped a household appliances manufacturer **speed up checks for conformity to IEC 61000-4-11:2004**.

Development and deployment of any AC-powered electronic device are accompanied by one big step – **device testing and certification for conformity to existing standards**, including failure resistance, short interruptions and changes in power voltage. There is a special class of devices called "test generators" used for conformity testing and control.

Challenge

We had to develop a software solution that would be embedded into the client's hardware devices. The app should cover testing electronic appliances with up to 600 W rated power for conformity to IEC 61000-4-11:2004.

Solutions

We created software that meets the specified requirements. Key features of the device: it is compact and has a communication interface for control from a computer.

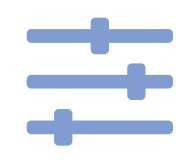
Features



Portability



Possibility to test an electronic device for conformity to IEC 61000-4-11:2004

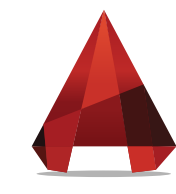


Communication interface for control from a computer



Modern hardware components

Technologies



Autocad



MicroCAP



p-cad



IGBT power modules



AVR



RTOS



PWM

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