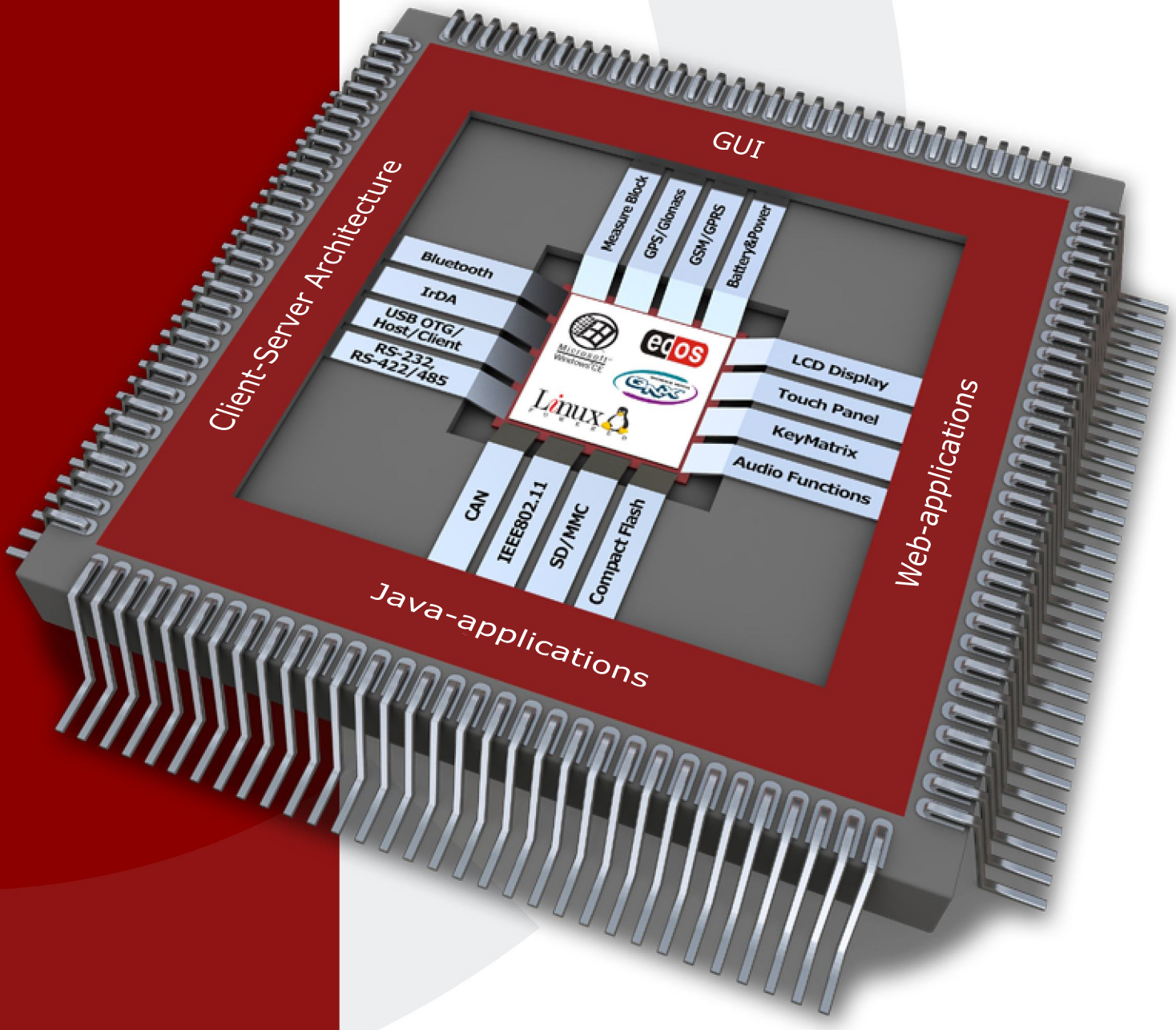
INNOVATION PROMWAD COMPANY

SIMPLE SOLUTION
OF COMPLEX TASKS

Software development for embedded systems

We develop software and hardware solutions for embedded systems widely used in measurement equipment, industrial automation, mobile electronics and telecommunications.

We are specializing in hardware and software system design on ARM, MIPS, PowerPC and x86 based processors and System-on-chips (SoC), as well as in developing software/firmware for microprocessors, digital signal processors (DSP) and microcontrollers. Our experience in embedded solutions enables us to provide high quality services of developing software for embedded systems.



Our engineers have a solid hands-on experience in designing:

- custom Linux distributions for Intel PXA2xx and Analog Devices BF53x boards
- custom Linux distributions for PC-104/PC-104+ industrial PCs
- device drivers (LCD, USB, CompactFlash, Ethernet, UART)
- graphical user interfaces (GUI) for mobile measurement equipment and PoS-terminals
- network and multimedia applications
- web-oriented applications and services
- real-time applications for RTLinux, RTAI, eCos

We use the following software tools and components:

up-to-date case tools and methods of project management

- programming languages : C/C++, Java, Python, Perl, Ruby, PHP
- cross-platform libraries : Qt/QtEmbedded, wxWidgets, Boost

Promwad offers the following services:

- project design expertise and requirements specification analysis
- elaboration of requirements specification
- device drivers and system software development
- implementation of modern industrial protocols (MODBUS, MODBUS PLUS, PROFIBUS, TCP/IP) and interfaces (USB, CAN, I2C, SPI, Ethernet)
- Linux porting on a target platform and Linux BSP development
- software applications and GUI development
- custom Linux distributions for a target platform

Areas of expertise:

- embedded system hardware design
- software development for embedded systems
- technical consulting

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