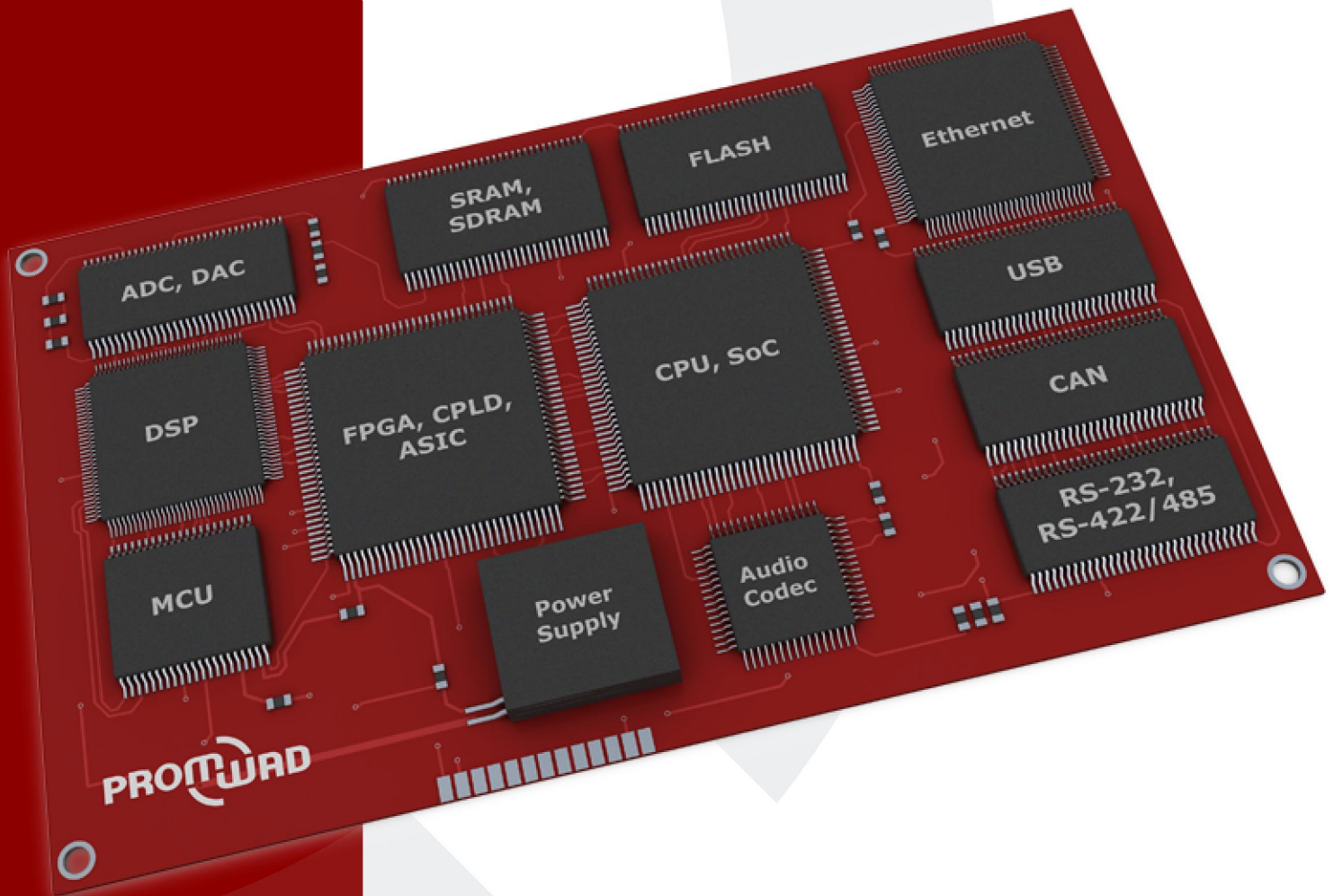


## Embedded System Design

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

We design modern devices based on microprocessors, system-on-chips (SoC), FPGA, DSP, MCU. Our extensive experience in developing hardware systems enables us to provide high quality services of developing on-demand OEM modules for embedded systems. We are specializing in hardware and software system design on ARM, MIPS, PowerPC, x86 architectures, which are intensively used in mobile and industrial applications.



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

- terminal devices
- measurement equipment
- in-vehicle PCs
- data acquisition and processing devices
- control systems

We use the following electronic components base:

- SoC processors: Intel XScale PXA255, Sharp LH754xx/LH795xx, BlackFin ADSP-BF53x;
- FPGA: Xilinx Spartan2, Spartan3, Virtex, XC9500, CoolRunner; DSPs: TI C5000, ADSP-218x/219x;
- MCUs : AVR/ATmega, MSP430, C51;
- Peripherals : USB, Ethernet, CAN, RS-422/485, PCI, ISA;
- OEM modules : GPS/Glonass, GSM/GPRS, WLAN.

Promwad offers the following services:

- on-demand device development using SoC/CSoc technology.
- project system analysis: vision, targeting, functionality project and device specification accomplishment electrical scheme design
- PCB design
- MCU, FPGA, DSP firmware development development and manufacturing of a complete hardware solution
- custom IP core development, VHDL design, IP cores intergration
- reference board production, verification and testing
- technical documentation support
- samples of production quality control
- technical support

Areas of expertise:

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

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