



Promwad Innovation Company

is a professional developer of hardware platforms for electronic devices and embedded systems. Since 2004, we have been helping create commercially successful products for global sales. The result of our development belongs to the customer and is not circulated in other projects.

Key areas of our developments:

1. Multimedia
2. Datacom and telecommunications
3. GPS/GLONASS
4. Automotive electronics

Our official partners:



Hardware Platforms Development for Electronic Devices

➔ Development of Multimedia Devices

We minimize the cost of final products, comply with audio and video quality requirements, ensure ease of assembly in manufacturing and offer hardware designs using content protection technologies.

- Set-top boxes (STB) for DVB-T/C/S/S2/IPTV digital broadcasting
- Audio/video streaming devices: Internet radio, online media players (juke boxes), karaoke machines, industrial broadcast systems, etc.
- Platforms for interactive entertainment centers: game simulators, 4D cinema
- Digital signage, electronic promotional displays and moving message boards

➔ Development of Datacom and Telecom Electronics

We design equipment based on specialized processors for high-speed data processing and use different communication channels and methods (optical, wireless, digital and analog):

- Low-power mini servers
- Analog-to-digital PBX and VoIP routers
- Network routers
- Equipment for wireless access points (WLAN)
- Network-attached storage (NAS)
- Baseboard management controllers (BMC)
- Thin clients
- Multi-purpose network devices for home and office, digital TV, telephony, Internet, smart house, etc.

Promwad developments meet high requirements for data network bandwidth capacity.



ELECTRONIC
PRODUCTS DESIGN

Promwad engineers offer turnkey hardware platform designs, from product concept development to production launch. We also perform individual tasks that occur at various stages of creating an electronic product:

- Development of electrical schematics and printed circuit boards
- Modeling (electromagnetic compatibility and thermal simulation, signal integrity analysis)
- Preparation of documentation in compliance with IPC and GOST requirements
- Production preparation and support
- Industrial design (development of enclosures for electronic products, production launch)
- Engineering consulting

Hardware Platforms Development for Electronic Devices

➔ Development of Automotive Electronics

Promwad engineers take into account harsh operating conditions, increased fault tolerance requirements, the need for reserving separate hardware modules, maintainability and application of international standards.

- Vehicle multimedia system devices: on-board computers, media players, audio systems, navigation devices, TV receivers
- On-board monitoring and diagnostic systems (OMDS) for specialized vehicles (trucks, combines, cranes, military vehicles, etc.)
- Telemetric systems for collecting information on the vehicle's technical condition and route
- Comprehensive solutions: automotive trackers, DVRs

Our experts use:

- Specialized vehicle interfaces: OBD, CAN, FR, LIN, MOST, IDB1394
- Multimedia interfaces: LAN, MOST, Bluetooth, WiFi, USB, MMC
- Telematics modules: GPS/GLONASS, GSM/3G, FM DARC/KDGPS

➔ Development of GPS/GLONASS Devices

We design small-sized equipment with ultra-low power consumption and a high integration of wireless interfaces in one device:

- Time synchronization systems using a time signal (PPS/NTP servers)
- Vehicle navigators (fixed and mobile)
- Route trackers for tourists and sportsmen
- Navigation systems for shipping transport

Promwad experts integrate navigation modules and antennas to meet electromagnetic compatibility requirements, while keeping the size of the device to a minimum. Our designs meet stringent requirements for radio emission, moisture protection and impact resistance.

➔ Industrial Design: Enclosures for Electronic Devices

Development of an original enclosure solution and putting it into production.

- Enclosures based on the customer's preferences and market trends
- Considering several designs in different styles
- The joint work of engineers, designers, developers and technologists helps find an optimal solution reflecting a balance between the product's form and content (adapt an enclosure to the PCB size, etc.)
- The development of an enclosure involves thermal simulation, taking into account temperature control and ventilation requirements
- Use of the latest technologies in plastic enclosure design

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