

About Qualnetics™

Qualnetics specializes in telematics products and engineering services using the Windows Embedded Suite of products. Since its founding by Microsoft veterans in 2003, Qualnetics has garnered a growing reputation for its engineering prowess in this industry. Our team is skilled at unleashing the full power of Windows Embedded Automotive 7, Windows CE, and Windows Mobile.



Pioneers and Innovators in Telematics

Much of our expertise is devoted to telematics, for automobile and commercial vehicle fleet management, tracking and diagnostics. Within the telematics industry Qualnetics is recognized as a dependable and qualified embedded engineering firm providing telematics products and services. Our engineering team quickly discerns the needs of our clients, then efficiently executes on a Product Plan or Statement of Work to meet the client's target delivery requirements.

Qualnetics has intimate knowledge of, and experience with, Microsoft's automotive OS products. We fully appreciate the unique and harsh environment that would bear upon an embedded automotive platform and the need for automotive grade software. We also understand other important automotive issues such as how to reduce warranty support costs and human factors in automotive HMI design.

Products

Over the past 11 years we have worked with our customers to create a wide variety of Telematics devices:

- First to market with an automotive grade in-vehicle wireless access point + AVL system
- In-cab computers for trucks and heavy equipment
- Connected navigation systems
- Aftermarket Automotive PC
- OEM Automotive Telematics Systems
- Prototype Systems for automobiles and trucks

Windows Embedded Automotive Development Kit (WE-ADK)

Qualnetics manufactures and markets the official development kit for Windows Embedded Automotive. The WE-ADK is designed for our customers who chose to develop their own Telematics application. The Kit contains a robust set of auto grade hardware components pre-qualified by Microsoft's Automotive team. These components include radio tuners, Bluetooth, USB, CAN, DVI video output with touch screen support, and various others to accelerate the development process.



Critical Requirements Experience

Qualnetics has the real-world experience necessary to design and implement dependable telematics products:

- Power management
- Fault tolerant and self-healing systems
- Wireless connectivity (WiFi, bluetooth & mobile)
- Fast boot
- Remote diagnostics and logging
- Wake on demand
- Streaming audio and video
- Hard real-time requirements

Getting Products Shipped

We have also identified and corrected very difficult problems in telematics systems for our customers:

- Resolving vexing in-field reboot and system crash issues
- Resolving GPS, Flash File System, USB and Reset Circuit issues
- Difficult power management issues including ignition crank problems and reducing power consumption
- Circuit and chipset errors
- Audio breakup
- High CPU usage
- Forensic analysis of the system
- Preventing cancellation of troubled projects

Embedded Engineering

Project Design & Management: Ready to Assist Your Team

Our proven development methodology and framework brings your idea to life. With knowledge of the latest embedded technologies and devices, our experienced project managers and architects help you design, organize, and manage your project.

Board Support Package (BSP) Development: Build, Improve, & Innovate

Show your customers the full potential of your product. Our engineers have developed robust, high-performance BSP's across a wide range of hardware platforms.

Device Driver Development & Optimization: Precision Tuning for High-Performance Devices

Qualnetics speeds your time to market by providing quality device drivers for your BSP that support numerous components. Our team has architected drivers from conception to final product. Our extensive experience covers a variety of platforms and operating systems.

Code Review, Testing, & Optimization: Systematic Analysis to Find & Solve Problems Quickly

Qualnetics can perform targeted or complete system analysis of any Windows Embedded project, software, application, or driver to spot performance bottlenecks and then architect and implement solutions to these issues.



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