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Qt Group

How IAR's Embedded Development Platform Supports Your Medical Device Project

Patient Monitoring & Wearables

Ultra-low-power, secure development with IEC 62304-certified toolchains for clinical-grade wearables and remote monitoring platforms.

Implantable & Life-Support Devices

Deterministic, TÜV SÜD-certified toolchains up to IEC 62304 Class C for pacemakers, infusion pumps, ventilators, and neurostimulators.

Diagnostic Imaging & Lab Automation

High-performance compilers, multi-core debugging, and real-time trace for CT, MRI, ultrasound, and robotic sample handling systems.

Surgical Robotics & Assistive Technologies

Certified functional safety editions with multi-core debugging and optimized code for AI-driven surgical platforms under IEC 62304 Class C.

Telemedicine & Connected Equipment

Architecture-agnostic tooling with integrated secure boot, firmware signing, and CI/CD-ready builds for MDR/IVDR and CRA-compliant connected devices.

Code size optimization	Time-to-market	Engineering efficiency	Developer productivity
↓ ~30%	↓ 12 months	↓ 50%	↓ 80%
Lower MCU & BOM cost	Validation time	CI/CD build time	Debugging time

Strong partner and ecosystem

RENESAS · ST · NXP · Infineon · Texas Instruments

Validated with leading medical MCU platforms: IEC 62304, IEC 81001-5-1, MDR/IVDR, and CRA-ready workflows across all software safety classes.

Connect with an expert

