QNX | Enhancing Efficiency, Reliability, Security of Critical Embedded Systems

QNX solutions are at the core of many critical embedded systems, driving applications across diverse domains such as aerospace, defense, automotive, industrial, medical, robotics, rail systems, and more.

DELIVERING FOUNDATIONAL SOFTWARE

QNX SDP 8.0

Development platform for next-generation systems – merging unprecedented performance with unparalleled security and reliability.

QNX OS for Safety

Pre-certified QNX OS for Safety is a microkernel RTOS ideal for building safe devices

QNX Filesystem for Safety

Pre-certified QNX® Filesystem for Safety is a POSIX-compliant read-only filesystem designed to store critical data like executables and configuration files for safety-certified systems.

QNX Hypervisor for Safety

Pre-certified QNX Hypervisor for Safety allows for mixed-criticality of multiple OSes to safely co-exist on the same SoC.

Performance | **Safety** | **Scalability** | **Reliability**

MICROKERNEL ARCHITECTURE · REAL-TIME OS (RTOS) · DETERMINISTIC · SCALABLE
FAULT TOLERANCE · POSIX COMPLIANCE · MULTI CORE
CYBERSECURITY COMPLIANCE · FAST SECURE BOOT · MEMORY PROTECTION
EMBEDDED HYPERVISOR · MIXED CRITICALITY SUPPORT · ADAPTIVE PARTITIONING
HARDWARE VIRTUALIZATION · LOW LATENCY · CONTAINERS

Safety QNX Product Certifications: ISO/SAE 21434 (Automotive Cybersecurity), ISO 26262 ASIL D (Automotive), IEC 61508 SIL3 (Electronic Systems), IEC 62304 Class C (Medical)

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EMBEDDED SYSTEMS SOLUTIONS

QNX

Choice of Leading Robotics and Automation Manufacturers

QNX provides **Ultra-Reliable, Hard Real-Time Operating System (RTOS)** with microkernel architecture critical for controlling complex robotic functions such as high-speed manipulation, precise locomotion, and safety-critical operations.

QNX OS 8.0

- Integrated with Robot Operating System 2 (ROS 2)
- Ensures Deterministic, Minimizes Jitter and Latency
- Enables Fault Tolerant and Fail-Safe Processes
- Adopts Power-Safe Recovery
- Increases System Throughput while Decreasing Processor Utilization
- Reduces Start-up Time and Energy Consumption
- Streamlines Safety certification reducing overall development time
  - Certified for IEC 61508 Safety Integrity Level 3 (SIL 3)
  - Certified for IEC 62304

QNX: GOLD STANDARD FOR MISSION CRITICAL SYSTEMS

Safety
- Broadest safety-certified software portfolio
- Significant ongoing investment in safety roadmap

Security
- QNX's software portfolio proven security
- BlackBerry & QNX security services

Reliability
- Decades of reliability in mission critical systems
- Proven microkernel system architecture

Real-time
- Realtime OS pedigree and adherence to standards
- Best in class system performance and tools

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EMBEDDED SYSTEMS SOLUTIONS