

QWin[®]

QNX Neutrino RTOS

Windows XP Embedded

QWin[®]

- QNX[®]
- WINDOWS[®] XP

HARD REAL-TIME - COST-EFFECTIVE - HIGH RELIABILITY

- Non-proprietary real-time solution for Windows[®]
- Based on the KUKA real-time framework "RTOS-VM"
- Hyperthreading, multiprocessor and APIC support
- Hard real-time performance
- Lower hardware costs
- Eliminates a second dedicated controller
- Drastically increased reliability (MTBF)
- Outstanding connectivity
- Access to powerful Windows[®] XP API
- Full support by strong software partnership

IBV - Automation GmbH is a member of the IBV Business Group, which is located in Koenigsbrunn near Munich in Germany and is focusing on solutions for the industrial automation based on embedded computers running a real-time operating system.

IBV - Echtzeit- und Embedded GmbH & Co. KG is an authorized distributor of QNX solutions for the German region and is focusing on the development of software for various technical markets and offers Board Support Packages, Drivers, Embedded Software, Real-Time Applications and User Interfaces on different platforms. IBV also provides consulting services and software development, based on almost 20 years experience in this business.

STRATEGIC ADVANTAGE – SINGLE PROCESSOR OPERATION

QWin® based on KUKA's real-time technology extends the QNX Neutrino RTOS with Windows and allows both to reside concurrently on a single processor. IBV's QWin® product adds Microsoft Windows capabilities to the QNX microkernel RTOS, eliminating the need for a second system running an HMI. QWin® lowers hardware and development costs and delivers superior reliability in an industry standard solution.

QWIN® EXTENSION TECHNOLOGY

Real-time control must be accurate, reliable and cost-effective. Extending the proven real-time performance of the QNX Neutrino RTOS with the flexible attributes of Windows on the same machine, results in a powerful real-time system with access to all Windows features and applications of Windows.

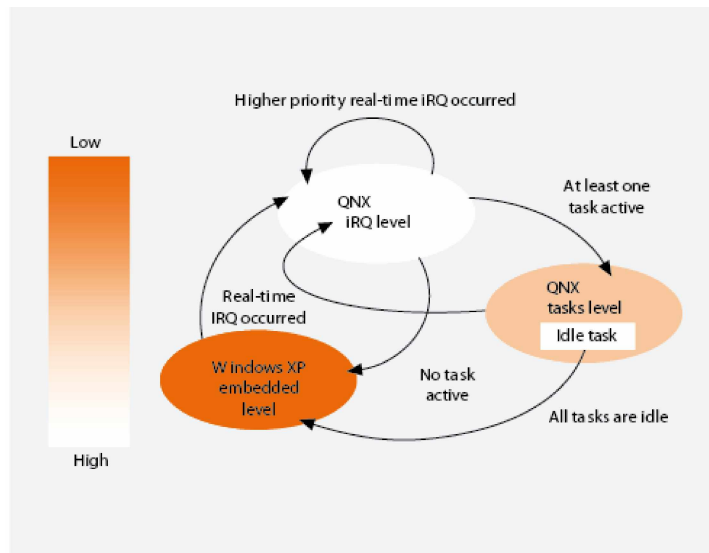
Products using KUKA's real-time technology have years of operational experience in critical applications. Tens of thousands of industrial robots, industrial automation, process automation, medical equipment and other applications are in operation throughout the world. IBV have established a long term relationship with KUKA and QNX Software Systems assuring seamless interoperability of

our products. Users also have the support of our applications engineers and our ongoing commitment to continuous product improvement.

FASTER DEVELOPMENT CYCLES

QWin® developers enjoy a faster development cycle working in the

QWIN® STATE MACHINE



REDUCE HARDWARE INCREASE RELIABILITY

With QWin® there is no need for separate control hardware or costly intelligent coprocessor boards. Because hardware component count is significantly reduced, MTBF is drastically increased. Costs are further reduced because system size and weight can be cut. In addition, using QWin®, QNX hard real-time performance is unaffected by Windows occurrences.

well-known and thoroughly proven development environments QNX Momentics IDE and Visual Studio. Programmers can reuse their existing Windows and QNX software knowledge.

SALES AND SUPPORT

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