

# Press Release

Berlin, January 27, 2020

## Real Time for NI Multifunction Cards

Kithara Software, specialist for Windows real time, has announced support for multifunction data acquisition cards by National Instruments. This way, the Multifunction Module, as part of Kithara RealTime Suite, enables real-time access for any PCIe card of the X Series in order to implement efficient test, measurement and control applications.

With the Multifunction Module, the real-time drivers by Kithara provide an easy-to-apply API, which allows for vendor-neutral programming of hardware-dependent accesses. This includes real-time functions for the utilization of digital I/O (bit-wise or word-wise) as well as analog I/O as single value, channel sequence, limited series of sequences or continuous mode with a switch buffer interrupt.

Through inclusion of multifunction cards by National Instruments, the Kithara real-time system offers users a scalable solution for universal measurement data acquisition and control tasks. Users are able to choose from a range of required hardware specifications such as the number of analog I/O and their maximum sampling rate as well as the number of digital I/O and their maximum clock rate.

“Many of our customers rely on multifunction cards for data acquisition, such as for cost-conscious capturing and processing of specific measurement data. The support for the X Series by National Instruments with our real-time system allows us to cover an especially wide spectrum of such hardware solutions, with specifications ranging from low to high end”, Uwe Jesgarz, managing director of Kithara Software GmbH, explained.

Multifunction DAQ devices are a dedicated, cost-efficient and scalable option for data acquisition and control applications, transforming analog physical measurement values into digital signals. Employing modern

### Responsible

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technologies including PC-based real time, multi-core processors as well as PCI Express allows for an easy implementation of highly efficient solutions for this field.

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## **Kithara Software GmbH**

Kithara Software is a specialist for real-time solutions, especially for the Windows operating systems family. The real-time extension Kithara RealTime Suite is a comprehensive system library for hardware-dependent programming, communication, automation and machine vision. The software is an easy-to-use and powerful technical basis for advanced applications in production and manufacturing, automotive electronics as well as measurement and control engineering. It is the key element in machine building, testing rig development and other specialized applications. Kithara Software has representations in the USA as well as Asia and supports global companies with their innovative projects.

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