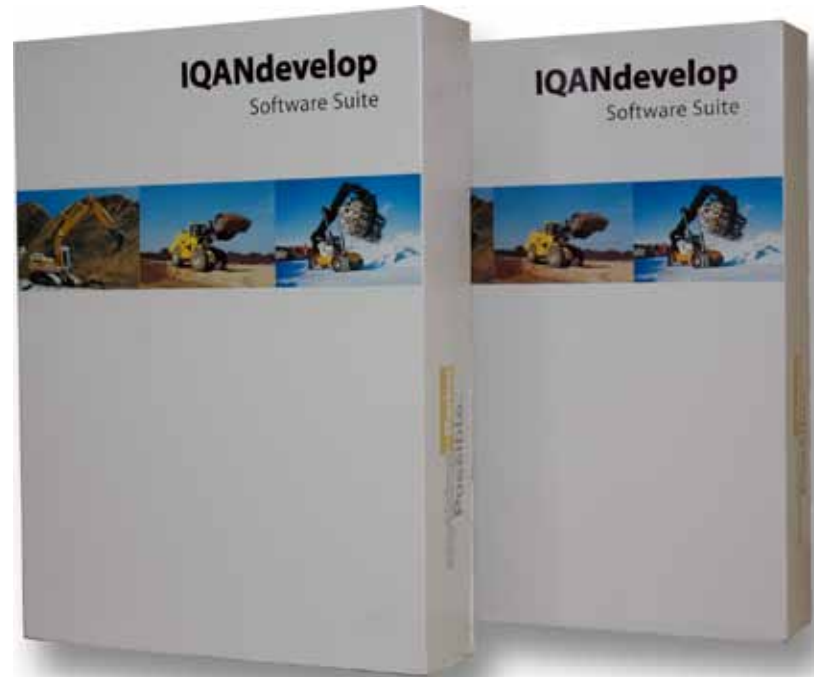




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IQANsimulate Software

Electronic Control Systems



ENGINEERING YOUR SUCCESS.

Application

IQANsimulate is a software tool, included in the IQANdevelop PRO kit, for simulating expansion modules for IQAN control systems. It is used for testing and evaluating mobile machine applications.

The master unit, IQAN-MDM, cannot tell any difference between IQANsimulate and real expansion modules. You are able to interact with the master unit in real time and can verify the response from the modules. In this way, you can confirm your application's functionality before sending it to your machine.

The software is based on the IQAN system's modules. Each expansion module, defined in an IQANdevelop application, is represented by a module



panel in the main window. These module panels contain controls for every input channel and indicators for every output channel on the module. As you change the input values, you will see how the outputs change in accordance with your functions. You can also simulate error conditions such as signal shorted to ground or supply.

Design

IQANsimulate is a Windows® based software running on PCs and laptops. It has a user-friendly interface, with track bars and edit boxes for simulation, bar graphs and lamps to show the result of your simulation and a status bar.

The software as well as the user manual are in English.

IQANsimulate uses CAN to communicate with the master module.

CAN communication

Because IQANsimulate uses CAN for communication, a National Instruments CAN card (www.ni.com) has to be installed in the computer.

National Instruments order numbers:

Desktop, PCI-CAN p/n 777357-01

Laptop, PCMCIA-CAN p/n 777499-01

For communication, a CAN cable has to be connected between the IQAN-MDM and the PC.

How to use IQANsimulate

To test an application in IQANsimulate, it first has to be created in IQANdevelop. To simulate, the same application file that is downloaded into IQAN-MDM has to be open in IQANsimulate.

If there are any errors found in the tested application, it is easy to switch to IQANdevelop to review the function's composition to find the error.

IQANsimulate is capable of synchronizing its current application to IQANdevelop (version 2.0 or later) when they are run on the same computer. This allows IQANsimulate to automatically load any application that is uploaded from or downloaded to the master with IQANdevelop.

IQANsimulate contains functions for import and export. These functions are used in order to save and open settings for an application.

Protection

In IQANdevelop it is possible to protect an application from unauthorized users by creating a code. To open a protected application in IQANsimulate, the code must be entered to get access.

Contents

IQANsimulate is included in the IQANdevelop PRO kit and cannot be ordered separately. The following items are included in the IQANdevelop PRO kit:

- A USB flash drive containing IQANdevelop and IQANsimulate software
- 1 software licence

Ordering part number

included with:

| | |
|-----------------|----------|
| IQANdevelop PRO | 20005607 |
|-----------------|----------|

Requirements IQANdevelop/IQANsimulate

CPU PC compatible, Pentium or better

RAM minimum 32 Mbyte
(64 Mbyte recommended)

HD 25 Mbyte memory space available

Ports serial port RS232

Software¹ Windows® 95/98, NT® 4.0, 2000, XP

Misc. 1 PCI slot available or PCMCIA
1 CAN card
1 IQAN-MDM

Upgrade

It is always possible to download the latest IQANsimulate version from our web site www.iqan.com.

1 IQANsimulate is a mature product and is no longer updated to meet new PC requirements.



WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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