



PRESS RELEASE

For Immediate Release

Orange Tree announces software platform for USB and Gigabit Ethernet interconnect boards

ZestDAQ simplifies data acquisition and control applications

Oxford, UK – 9th January 2017

[Orange Tree Technologies](#) today announced [ZestDAQ](#), a software platform for data acquisition (DAQ) and control applications running on the company's Zest series of USB and Gigabit Ethernet boards.

Provided free of charge to Orange Tree customers, ZestDAQ consists of multiple FPGA logic cores designed to make the buffering, formatting and transfer of data between peripherals or sensors and a host PC as straightforward as possible.

With this framework, the user needs only to create the application specific code to interface to their peripherals and format the data in a suitable manner for transmission to the host PC. This reduces the design effort for common data acquisition and control architectures, saving time for end users and enabling them to concentrate on their own specialised sensors and applications.

Matt Bowen, Software Director at Orange Tree Technologies, said, "Since many data acquisition applications have a similar structure, a standardised platform such as ZestDAQ can be invaluable for our customers – benefiting from proven, tested code to cut time to market and reduce risk."

ZestDAQ provides common IP interfaces across multiple boards, which simplifies the porting of designs between Orange Tree's USB and Ethernet modules. It also includes a host software library and host software examples.



The new software platform includes a wrapper around the Ethernet interface to simplify network communications, and a wrapper around the USB interface to multiplex multiple data streams across a single link. It also provides core code to simplify accessing the control and status registers in a board's FPGA, and it supports multi-channel FIFO buffering of data in external SDRAM.

Orange Tree has a range of [Gigabit Ethernet and USB boards](#), providing high-speed embedded device interconnect, and including the latest FPGA technologies. By delivering a simple way to connect real-time devices to computers, the boards save time and increase flexibility for customers.

As well as ZestDAQ, other software available from Orange Tree includes free Windows and Linux tools based on GCC and Eclipse for the GigEx User CPU, and Windows and Linux software support for configuring and communicating with the User FPGA. Free tools are available from Xilinx for creating FPGA designs.

ZestDAQ is available now.

About Orange Tree Technologies

Orange Tree Technologies is a board level embedded hardware and software company specializing in high-speed embedded device interconnect and FPGA technologies. Used by some of the world's leading technology companies our products and services help address the challenges of rapidly changing industrial, medical, defence, scientific and consumer electronics markets.

Orange Tree's core focus is on connecting real-time devices to computers with high-speed Gigabit Ethernet and USB. We exploit the latest FPGA technologies in our off-the-shelf products to give reduced time to market and upgradeability for our customers. Since we were founded in 2001, we have gained world-class expertise in the fields of data acquisition, data processing and device-host interconnect.

OEM engagements are supported through customization via Orange Tree's dedicated design services function. Headquartered in Oxford, UK, Orange Tree Technologies is a privately held company and operates internationally.

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