## Continued Support for Your VXIbus Systems Bustec Releases New VXIbus Slot-0

By Dr. Fred Blönnigen (fred@bustec.com)

Many users have existing fully functional VXIbus systems. These systems represent very often substantial investments and most users would like to safeguard these investments, but are faced with the problem of porting these systems to newer operating systems, may it be Windows, Linux- or Real-time systems. To do so, they often only need a port of the VISA of their existing slot-0s to these new operating systems. But most companies stopped to update the VISA of their slot0s as they are stopping the production and support of these slot0s. Not so Bustec, they are and will remain fully dedicated to VXIbus and released a new Quad-core embedded PC the ProDAQ<sup>TM</sup> 3058. Bustec is still offering a wide range of slot0s, which are all supporting Windows, Linus and RT-Linux.

The ProDAQ<sup>TM</sup> 3058 Intel® Pentium® based embedded slot-0 controller is the first embedded controller to support fully the VXI-1 4.0 interface standard. Using Bustec's high speed PCI Express to VXIbus interface it supports all VXIbus transfer modes defined in the standard including the new 2eSST block transfer mode with up to 320 MB/sec throughput. It occupies only 1 VXIbus slot. It has a quad core processors, which operates with up to 2.56 GHz. The onboard Intel HD Graphics 405 with 16 execution units and a clock speed of up to 700 MHz supports DirectX 11.2 and video up to 4K/H.265. The HDMI interface on the front panel allows connecting monitors with a resolution up to 3840x2160 at 30 Hz or 2560x1600 at 60Hz.

The ProDAQ 3058 features two USB 2.0 and one super-speed USB 3.0 ports as well as a Gigabit Ethernet interface on the front-panel. It features an internal M.2 slot for solid state drive modules of different sizes. Optional external drives can be connected using the super-speed USB 3.0 connector in the front panel. The optional trigger interface of the ProDAQ 3058 is compatible to the LXI revision 1.3 standard. This trigger interface is an eight channel multipoint LVDS (M-LVDS) signalling system for sourcing or receiving VXIbus TTL trigger lines and CLK10 signals from other VXI devices and LXI devices in hybrid test systems. Devices can be connected in a daisy-chain configuration through separate input and output connectors or in a star configuration through hubs.

A very important feature is the optional possibility to add up to 7 additional VXIbus mainframes via our PCIexpress x4 connection. This connection can be done via copper or Fiber-optic cables using the same connection mechanism. The ProDAQ 3058 supports different desktop and embedded Microsoft Windows operating systems as well as the Linux OS and RT-Linux.

The ProDAQ 3058 slot-0 is part of Bustec's complete line of different slot-0s, which all continue to support the latest Windows and Linux operating systems and will do so in the decade to come. Bustec is offering PCI-, PCIexpress connections to their ProDAQ 3030 controller, which like the ProDAQ 3058 supports the VXI-1 4.0 with up to 320MB/sec as well as all existing VXI transfer modes. Other slot-0s are the USB2.0 and the Gigabit Ethernet controller.

This shows Bustec's dedication to VXIbus. Bustec is able to handle, -and has already done so-, obsolescence problems for your VXIbus modules, which can no longer be purchased.

**About Bustec**: Located with headquarters in Winston Salem, North Carolina and Shannon, Ireland, Bustec is a leading supplier of high-performance data-acquisition and test products. The products are all based on computer independent and open platform standards. They offer the highest density available in the market and bring modularity to a new level. For more information visit us at www.bustec.com or call us at +1 (609) 865 0586 in the USA or at +353-61-707 100 in Ireland or send an email to sales@bustec.com.

**About the author**: Dr. Fred Blönnigen (<u>fred@bustec.com</u>) has a Ph.D. in physics. After he made his Ph.D. in France, he worked in the University of Berkeley in California as Nuclear and Elementary particle Physicist. Back in Europe, he worked for a large American data-acquisition and test company for several years. In 1997 he founded Bustec in Ireland and opened a branch in 2000 in the USA. He is still working as CEO of Bustec and is the President of the VXIbus consortium.