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FPGA and Data Acquisition News from KCL

High performance processing and data acquisition products from Lyrtech and Innovative Integration.

Main products are:

- [Perseus 601X Virtex 6 AMC with FMC sites](#)
- [ADAC250 High Speed Analogue FMC](#)
- [3L Diamond Design Flow Lyrtech Edition](#)
- [AMC-3D74 High Performance DSP Resource](#)
- [AMC-V5F Interface and Processing Card](#)
- [X5-210M PCI Express FPGA XMC Module](#)
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- [eInstruments-PC Compact Embedded PC \(ATOM\) / Data Acquisition Systems](#)

Perseus 601X Virtex 6 AMC with FMC sites

The Perseus 601X Advanced Mezzanine Card (AMC) is intended for high-performance, high-bandwidth, low-latency processing applications. The card also takes full advantage of the Virtex-6 FPGA's power, which, when combined with Lyrtech' advanced software development tools, makes the Perseus 601X perfect for reducing size, complexity, risks and costs associated with leading-edge telecommunications, networking, industrial, defense and medical applications. On top this, the Perseus 601X FMC expansion site (VITA 57.1) offers almost endless I/O possibilities.



[More Information](#) ▶

ADAC250 High Speed Analogue FMC

The ADAC250 FPGA Mezzanine Card (FMC) is designed around performance A/D and D/A conversion technology from Texas Instruments - it integrates one dual, 14-bit, 250 MSPS analog-to-digital converter (ADS62P59) and a dual, 16-bit, 1 GSPS digital-to-analog converter (DAC5682Z; also capable of a 2-4x interpolation mode). Combined with multiple clocks and synchronisation modes, the ADAD250 is at its best in DSP applications such as Software Defined Radio (SDR), advanced telecommunications (MIMO Systems, cognitive radios, beamformers, LTE, WIMAX, signal intelligence (SIGINT), radar, sonar and medical imaging applications.



[More Information](#) ▶

3L Diamond Design Flow Lyrtech Edition

The Lyrtech Edition of 3L Diamond enables designers to leverage 3L and Lyrtech's hardware integration and focus more effort on adding value to their application code. Code is organised as a number of independent, communication tasks, and via the Integrated Development Environment (IDE), operations such as loading multiple DSP and FPGA components and organising communication between tasks are handled automatically.



[More Information](#) ▶

AMC-3D74 High Performance DSP Resource

Full size Advanced Mezzanine Card (AMC) with three Texas Instruments TSM320C6474 multi-core DSPs, plus a Xilinx Virtex 5 FPGA providing exceptional processing capability, combined with 10Gbps 4x serial RapidIO™ and full Gigabit Ethernet infrastructure offer excellent communications capability.



[More Information](#) ▶

AMC-V5F Interface and Processing Card

AMC card featuring Virtex 5 FPGA, DDR2-600 SRAM, 10 Gbps 4 x SRIO, 2 full duplex Gigabit Ethernet ports, 4 x RapidIO™ at 10 Gbps and 2 SFP sockets for antenna interface with clock synchronisation.



[More Information](#) ▶

X5-210M PCI Express FPGA XMC Module

XMC Module featuring four 210 MSPS, 14-bit ADCs, a Xilinx Virtex 5, 1 GB/s, 8 lane PCI Express Host Interface, make the X5-210M ideal for software tuned radio, wireless receiver, RADAR or high-speed data recording.



[More Information](#) ▶

X5-G12 Dual Channel 1GPSP XMC I/O Module

The X5-G12 is an XMC I/O module featuring dual channels of 1 GSPS 12-bit digitising with Virtex 5 FPGA computing core, DRAM and SRAM memory, and eight lane PCI Express host interface. A Xilinx Virtex 5 SX95T or LX155T with 512 MB DDR2 DRAM and 4MB QDR-II memory provides a very high performance DSP core for demanding applications such as RADAR and direct RF digitising. The close integration of the analog I/O, memory and host interface with the FPGA enables real-time signal processing at rates exceeding 300 GMAC/s.



[More Information](#) ▶

Ruggedised X5 XMC Modules

Five ruggedised levels are now available for the majority of X5 XMC modules, ranging from office/lab to military/heavy industry with conduction cooling, -40 to +85 degrees C operating temperatures and functional testing to MIL-STD-810G.



[More Information](#) ▶

eInstruments-PC Compact Embedded PC (ATOM) / Data Acquisition Systems

Atom based low power COM-Express CPU plus dual XMC I/O modules in a Compact Embedded PC.

Use eInstrument-PC to create powerful Embedded Instruments to address difficult Distributed Data Acquisition Applications. Add X5 and X3 XMC (PCI Express) modules featuring Xilinx Virtex 5 and Spartan 3 FPGAs, available for any application from RF Receivers to Servo Control, to create the perfect Embedded Instrument.



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