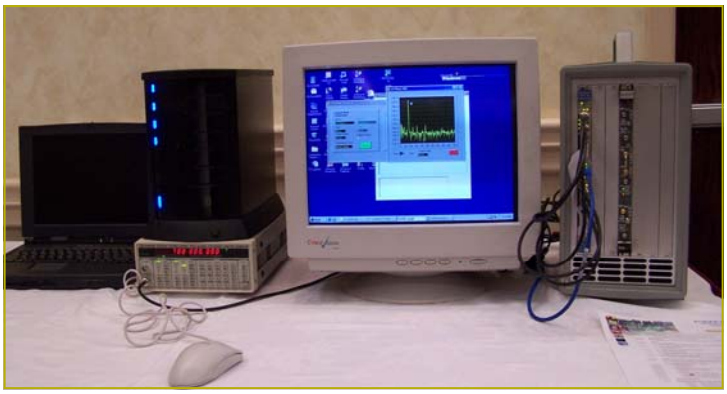
ESI Computing, Inc.

Engineering Scientific Industrial

Experts in Data Acquisition, Telephony, DSP, FPGAs, and Rugged Systems

Signal Intelligence System Bundle II - VME System



Buy the Solution Not the Problem

ESI has over 14 years experience designing real-time systems for SIGINT applications. As a manufacturers' representative we have spent countless hours helping our customers like BAE Systems, Pratt & Whitney, DOD, and General Dynamics design architectures and source COTS hardware and software for high-performance, real-time applications in SIGINT.

We Take the Guess Work Out of Component Selection

We source the best-of-breed technology and make them available as system bundles or as integrated turnkey solutions through our systems integration partners. The ESI SIGINT VME System Bundle II contains everything necessary to begin application development "out of the box." Our first MIT Lincoln Laboratory customer was able to deploy this system within one week to acquire field data that is currently under analysis at the main lab.

For More Information:

To learn more about the Signal Intelligence System Bundle II, contact ESI Computing at 978-369–8499 or by sending email to sales@esicomputing.com.

Components:

- DRS SI-9136A dual channel wideband VHF/UHF tuner providing phase- coherent or independent tuning of signal in the 20 to 3000 MHz range.
- Pentek Model 4205 VME 1 GHz Power PC carrier card with 1 GB SDRAM, two Xilinx II Virtex-II FPGAs and GigE or Fibre channel I/O.
- Two Pentek Model 6236 modules for a total of four 14 bit 105 MHz A/Ds, four wideband digital receivers, and two Xilinx Virtex-II FPGAs.
- Pentek ReadyFlow software library and GateFlow Xilinx FPGA development software kit (IP cores optional).
- JBOD or RAID for real-time data archiving at up to 160 MB/sec.
- 7- or 21-slot rackmount VME chassis.
- 19-inch rackmount dual Xeon development server or desktop workstation.

Expansion & Options:

- 21-slot VME chassis is capable of supporting up to 80 channels of A/D.
- FFT, digital receiver, and Radar pulse compression IP cores.
- GPS and IRIG B timing.
- Motorola MVME5500 1 GHz 7455 PPC Single Board Computer.
- Motorola MVME6100 1.2 GHz 7457 PPC w/ VXS Single Board Computer.
- 19-inch rackmount dual Xeon server.
- 215 MHz, 12-bit A/D with dual Virtex-II Pro FPGAs.
- End-to-end systems integration and project support from system definition, to algorithm development, to hardware system delivery from DSPCon.

PENTEK DSPCon KSI a division of DSPCon, Inc.