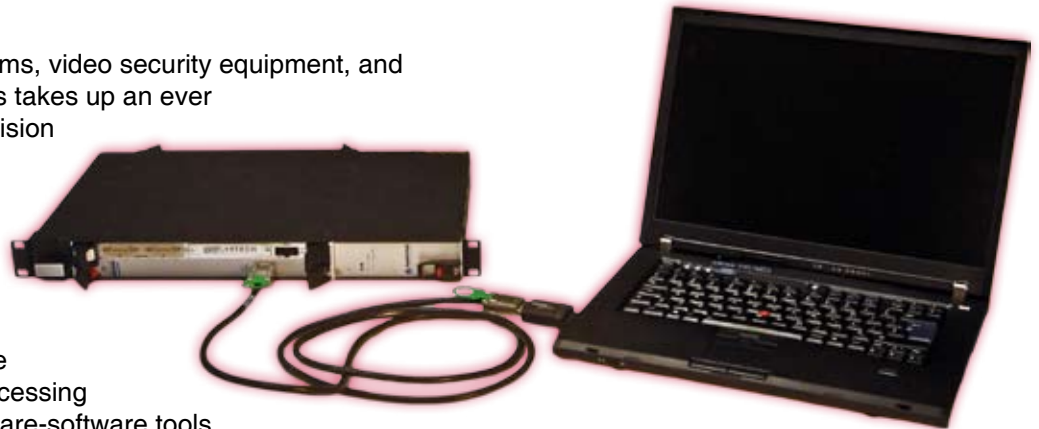


Pro Vision advanced development solutions

Reference sheet

Developing next-generation vision systems, video security equipment, and advanced image processing applications takes up an ever increasing part of the efforts of today's vision developers.

Lyrtech offers the most versatile and integrated DSP-FPGA-based professional vision advanced development solutions (ADSs) on the market to rapidly develop such applications. How? Because they can be scaled according to DSP and FPGA processing needs, because of their complete hardware-software tools integration, and because they support the Simulink model-based design flow from The MathWorks.



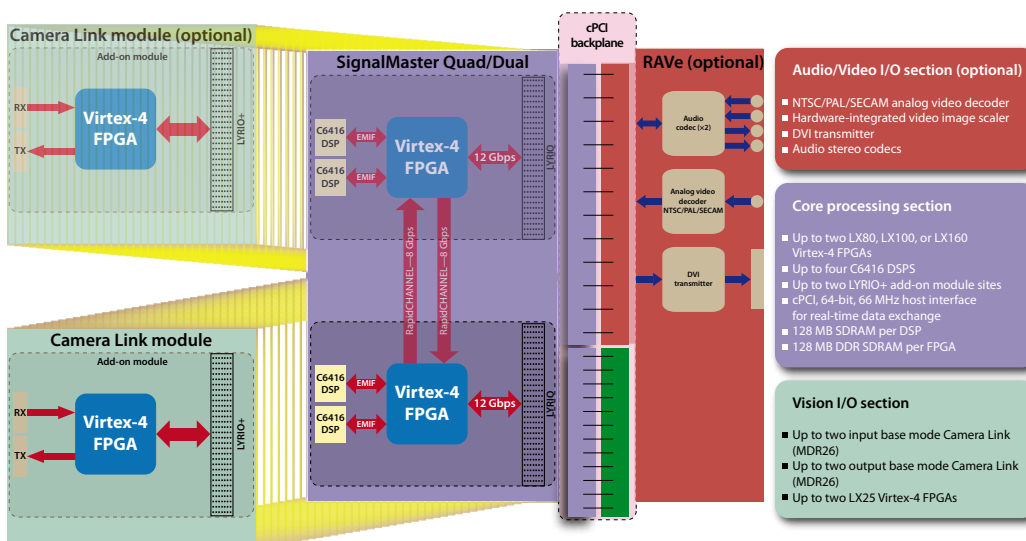
Fully integrated solutions

Lyrtech's Pro Vision ADSs integrate a complete array of tools and features, making them perfect for vision, video security, or any advanced image processing applications.

- Language-based design flow
- Real-time data exchange tools with the host device CPU
- Recording and playback tools
- Direct and remote access capabilities
- Real-time and hardware-in-the-loop co-simulation capabilities
- DSP-FPGA video framework through a four-port SDRAM FPGA core
- And much more

Seamless model-based design integration

Lyrtech's Pro Vision ADSs are seamlessly integrated to the Simulink model-based design environment, making it simple to develop applications and control/validate the different features of their systems in a graphical environment, where programming specific processors is as easy as dragging IP blocks.



Highly scalable solutions

By being able to expand the solutions with the help of modules, a virtually unlimited number of processors and I/Os can be added and connected through high-speed, 8 Gbps, full-duplex links (RapidCHANNEL), making these solutions ideal even for the most demanding processing tasks.

Audio/Video I/O section (optional)

- NTSC/PAL/SECAM analog video decoder
- Hardware-integrated video image scaler
- DVI transmitter
- Audio stereo codecs

Core processing section

- Up to two LX80, LX100, or LX160 Virtex-4 FPGAs
- Up to four C6416 DSPS
- Up to two LYRIO+ add-on module sites
- cPCI, 64-bit, 66 MHz host interface for real-time data exchange
- 128 MB SDRAM per DSP
- 128 MB DDR SDRAM per FPGA

Vision I/O section

- Up to two input base mode Camera Link (MDR26)
- Up to two output base mode Camera Link (MDR26)
- Up to two LX25 Virtex-4 FPGAs



SignalMaster Quad



SignalMaster Dual



Camera Link module



RAVe module

Solutions	Entry level	Features	Models
SignalMaster Dual (x1) SignalMaster Dual MBDK license (x1) Camera Link module (x1)	Entry level	SignalMaster Dual <ul style="list-style-type: none"> LX80 Virtex-4 FPGA (x1) 1 GHz C6416 DSP (x2) 128 MB SDRAM per DSP and FPGA Camera Link module <ul style="list-style-type: none"> RX x1/TX x1 Camera Link interfaces LX25 Virtex-4 FPGA (x1) 	LSP000-637
	Light	SignalMaster Quad <ul style="list-style-type: none"> LX80 Virtex-4 FPGA (x2) 1 GHz C6416 DSP (x4) 128 MB SDRAM per DSP and FPGA Camera Link module <ul style="list-style-type: none"> RX x1/TX x1 Camera Link interfaces LX25 Virtex-4 FPGA (x1) 	LSP000-629
SignalMaster Quad (x1) SignalMaster Quad MBDK license (x1) Camera Link module (x1)	Intermediate	SignalMaster Quad <ul style="list-style-type: none"> LX100 Virtex-4 FPGA (x2) 1 GHz C6416 DSP (x4) 128 MB SDRAM per DSP and FPGA Camera Link module <ul style="list-style-type: none"> RX x1/TX x1 Camera Link interfaces LX25 Virtex-4 FPGA (x1) 	LSP000-630
	Advanced	SignalMaster Quad <ul style="list-style-type: none"> LX160 Virtex-4 FPGA (x2) 1 GHz C6416 DSP (x4) 128 MB SDRAM per DSP and FPGA Camera Link module <ul style="list-style-type: none"> RX x1/TX x1 Camera Link interfaces LX25 Virtex-4 FPGA (x1) 	LSP000-631

Options

Components	Features	Models
Camera Link module <i>A maximum of two modules can be added to the same SignalMaster Quad and one to the SignalMaster Dual</i>	<ul style="list-style-type: none"> Input base mode Camera Link (MDR26) (x1) Output base mode Camera Link (MDR26) (x1) LX25 Virtex-4 FPGA (x1) 	LSP148-601
RAVe module	<ul style="list-style-type: none"> PAL/NTSC/SECAM analog video decoder DVI digital transmitter Audio stereo codec 	LSP150-601
cPCI chassis system with cPCI-to-PCIe desktop expansion kit	<ul style="list-style-type: none"> 1U, 2-slot cPCI chassis cPCI-to-PCIe desktop expansion kit 	LSP000-627
cPCI chassis system with cPCI-to-PCIe laptop expansion kit	<ul style="list-style-type: none"> 1U, 2-slot cPCI chassis cPCI-to-PCIe laptop expansion kit 	LSP000-628



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With over 25 years of experience delivering advanced digital signal processing solutions to companies worldwide, Lyrtech serves customers across the Americas, Asia, and Europe. Lyrtech offers a full range of DSP-FPGA development platforms, as well as product development services. Lyrtech works in partnership with such industry leaders as Texas Instruments, The MathWorks, and Xilinx to deliver unsurpassed quality and support to its large OEM customer base, which includes many prestigious names of the consumer electronics, telecommunications, aerospace, and defense fields. In a world where digital signal processing technology is vital to network and wireless communications, audio and video processing, as well as electronic systems in all fields of technology, Lyrtech is an ideal partner.

Lyrtech products are constantly being improved; therefore, Lyrtech reserves itself the right to modify the information herein at any time and without notice.

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