



HIGH-SPEED DATA ACQUISITION DIGITIZERS

Digitizer Features	PX1500-4	PX1500-2	PX14400A	PX14400D	PX14400D2	EC14150A / EC14150D
Sample Rate:	3,000 / 1,500 MHz	3,000 / 1,500 MHz	400 MHz	400 MHz	400 MHz	150 MHz
A/D Resolution:	8-bit	8-bit	14-bit	14-bit	14-bit	14-bit
# of Channels:	2 / 4	1 / 2	2	2	2	2
Input Coupling:	AC or DC	AC or DC	AC	DC	DC	AC or DC
Bandwidth:	AC-A: 1 MHz - 1 GHz AC-X: 5 MHz - 2 GHz DC: DC - 1GHz	AC-A: 1 MHz - 1 GHz AC-X: 5 MHz - 2 GHz DC: DC - 1GHz	AC-A: 100 KHz - 200 MHz AC-X: 500 KHz - 400 MHz	DC - 200 MHz	DC - 248 MHz	AC: 200 KHz - 200 MHz DC: DC - 75 MHz
Input Ranges:	AC-A: 500mV AC-X: 700mV DC: 500mV	AC-A: 500mV AC-X: 700mV DC: 500mV	AC-A: 220mV - 3.5V AC-X: 1.1V	400mV, 1.2V	200mV, 333mV, 600mV, 1V, 1.6V, 3.0V	AC: 220mV - 6.3V DC: 250mV, 500mV, 1V, 2V
Onboard RAM:	2 GB	1 GB	1 GB (SP) or 512 MB (DR)	1 GB (SP) or 512 MB	1 GB (SP) or 512 MB	512 MB
PC I/O Interface:	PCI Express x8	PCI Express x8	PCI Express x8	PCI Express x8	PCI Express x8	ExpressCard 54
Max. PC I/O Rate:	1.4 GSPS	1.4 GSPS	700 MSPS	700 MSPS	700 MSPS	85 MSPS
Remote Operation:	Yes	Yes	Yes	Yes	Yes	No
FPGA DSP Option:	Virtex-5 SX95T	No	Virtex-5 SX50T/95T	Virtex-5 SX50T/95T	Virtex-5 SX50T/95T	No

REAL-TIME EMBEDDED FPGA DIGITAL SIGNAL PROCESSING

FPGA DSP Features	PX1500-4-SP95	PX14400-SP95/SP50
FPGA Type:	Virtex-5 SX95T	Virtex-5 SX95T / SX50T
Logic Cells:	94,208	94,208 / 52,224
Block RAM (kbits):	8,784	8,784 / 4,752
DSP Slices:	640	640 / 288
Onboard RAM for DSP:	1 GB	512 MB
PC I/O Interface:	PCI Express x8	PCI Express x8
Max. PC I/O Rate:	1.4 GSPS	700 MSPS
Remote Operation:	Yes	Yes

HIGH-SPEED SIGNAL GENERATION

Arbitrary DAC Features	PXDAC4800
Output Rate:	1,200 MSPS
Output Resolution:	14-bit / 8-bit
DAC Outputs:	4 AC or DC
Bandwidth:	< 2MHz - 590 MHz
Output Range:	400mV - 1470mV
DAC Type:	AD9736
Onboard RAM:	1 GB
PC I/O Interface:	PCI Express x8
Max. PC I/O Rate:	450 MSPS / 900 MSPS

SOFTWARE



- Digitizer & Playback Scope Applications with Provided Source Code for Complete Operation of Signatec Products
- Application Programming Interface (API) with Complete Library of Functions for Developing User Specific Applications
- FPGA Development Kits for Fixed DSP Capabilities or for Custom Programming
- Windows & Linux 32/64-bit Drivers
- Source Code Project Examples
- LabVIEW Interface Support

COMPLETE SYSTEMS



- Data Recorders with 250 MB/s, 500 MB/s, 800 MB/s, 1,000 MB/s, 1,400 MB/s, and 2,800 MB/s Recording Rate Options
- Synchronized Multi-Channel Acquisition Systems with Linked Digitizers Across Multiple Systems
- Generate Continuous, High-Resolution Signal Data with Real-Time Embedded DSP Options
- Operate Remotely through TCP/IP Network
- Desktop, Rackmount, & Portable Form Factors
- Customized Development for Tailored Applications

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