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Find the *VX Instruments PXD8213* at our website: *Click HERE*

PXD821x
High Performance Digitizer Family

VXI Instruments
the test solutions provider



TECHNICAL DATA SHEET

PXI
VXI
LAN
cPCI
PXIe
GPIB
USB
RS232
485
external
PCIe

Features

- 1 GS/s with 12 Bit resolution
- High input voltage range up to 120 V_{pp}
- Fully isolated design with up to two independent channels
- Multiple instrument and channel synchronization possibilities
- Built-in DVM function for high precision measurement

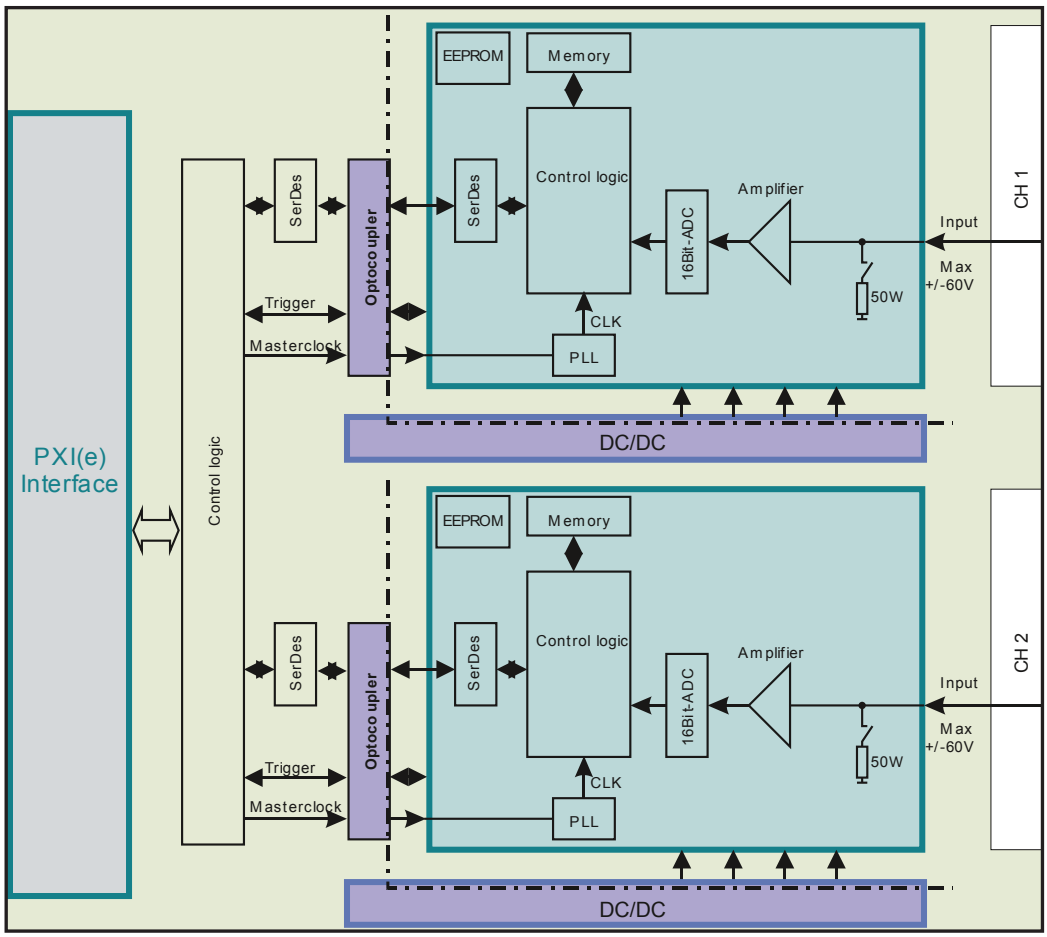
Product Information

High speed, high resolution waveform digitizer
The PXD821x High Performance Digitizer family features up to two 1 GS/s simultaneously sampled input channels with 12 Bit resolution, input voltages up to ±60 V and a bandwidth up to 125 MHz.
Every digitizer channel has its own memory which allows up to 50 k samples.
All PXD821x High Performance Digitizer family devices have a high common mode rejection ratio (CMRR).

High throughput design for many applications
The digitizers of the PXD821x family are designed for high throughput testing.

This design guarantees highest quality measurements and is ideal for a wide range of application areas including automotive, communications, scientific applications, military/aerospace and consumer electronics.

Available with 1 and 2 channels
The single-channel device PXD8213 High Performance Waveform Digitizer uses only 1 PXI-slot (3U). The dual channel device PXD8214 High Performance Waveform Digitizer needs 2 PXI-slots (3U).



General	Specification	Comment
Module size	1 slot, 3U 2 slots, 3U	PXD8213 PXD8214
Module weight	<0.7 kg	
Front connector type	BNC (isolated)	
Operating temperature	0 ... 40°C	
Operating altitude	<2,000 m	
Relative Humidity	Up to 85% at 35°C	
Storage temperature range	-25 ... 70°C	
Electrical safety	According EN61010-1	
Isolation input to PE	60V CAT I, Pollution Degree 2	

Acquisition	Specification	Comment
Maximum sample rate	1 GS/s	
Bandwidth		
Range 300 mV	>25 MHz	0.5 V_{pp} input signal; no filter
Range 1 V	>125 MHz	2 V_{pp} input signal; no filter
Range 3 V, 10 V	>75 MHz	2 V_{pp} input signal; no filter
All other ranges	>15 MHz	20 V_{pp} input signal; no filter
Vertical resolution	12 Bit	
Sampling times	1 ns, 2 ns, 5 ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1µs, 2µs, 5µs, 10µs, 20µs, 50µs, 100µs, 200µs, 500µs, 1ms, 2ms, 5ms, 10ms, 20ms, 50ms, 100ms, 200ms, 500ms, 1s, 2s, 5s, 10s	Software selectable
Input impedance	1 MΩ || <20 pF, 50 Ω	Software selectable
Input coupling	DC	
Input ranges	50 Ω: 300 mV, 1 V, 3 V 1 MΩ: 300 mV, 1 V, 3 V, 10 V, 30 V, 100 V	
DC accuracy[1]	0.25% of input + 0.25% of full scale	
Filter	300 kHz, 1 MHz, 20 MHz, 100 MHz	Software selectable

[1] DC accuracy specified for an average value of 1,000 samples with a sample rate of 50 kS/s and active 300 kHz.

Notes: All product data are specified for 1 year at an ambient temperature of 23°C ±5°C (after 1 hour warm-up time).
Product specification and description in this document are subject to change without notice.

Trigger System	Specification	Comment
Input from		
Internal function module	One function module can trigger itself and the other module	
Software	Via software command	
PXI trigger	Trigger 0 … 7 and star trigger	From the PXI backplane
Output to		
Internal function module	Output to the other module	For example marker-bit
PXI trigger	Output each channels trigger to PXI trigger 0 … 7	
Level resolution	12 Bit	
Level accuracy	0.6% + 0.3%	±(of programmed value + of full range)
Trigger slope	Positive or negative	

DVM	Specification	Comment
DC accuracy[1]	0.25% + 0.25%	±(of reading value + of full range)
Measurement time	1 … 500 ms	Software programmable

PXI Capabilities	Specification	Comment
PXI trigger usage	Possible	PXI trigger 0 … 7; input and output
PXI star trigger usage	Possible	Input only

[1] DC accuracy specified with measurement time of 100 ms.

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Revision Date: 2018-01-10

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