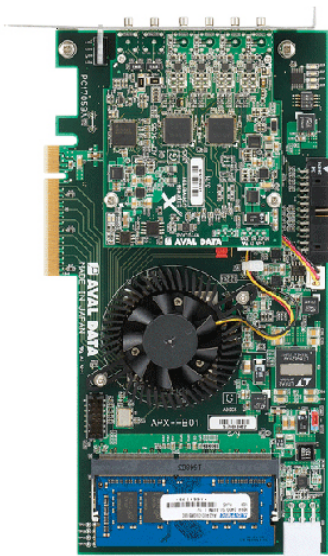


Express Converter

Hi-Speed Digitizer (DAQ) Series



APX-5056

16bit/ 500MSps Hi-Speed Sampling A/D conversion Board

- › Max. 500MSps ADC(Analog to Digital Conversion)
- › $\pm 1V$ Single Ended Input 4CH
- › Resolution : 16bit
- › OFFSET adjustment function
- › 4 CH LVTTTL level D-IO function (5 V tolerant)
- › DDR4 memory equipped, up to 1G point data transferable
- › External trigger & clock input for each CH
- › PCI Express 3.0 (Gen 3) x 8 enables high-speed data transfer
- › RoHS compliant



Specifications

Model name		APX-5056 (APX-FB01 + ADF-5056)
Analog I/F	input	Single end 4 ch
	Input impedance	50 Ω
	Coupling	AC Coupling
	Input range	$\pm 1V$
	resolution	16bit
	Sampling rate	125MSps ~ 500MSps
	frequency band	250MHz -3dB

	Input maximum rating	± 2 V (Current flow) ± 1.5 V (Non-current flow)
	Analog performance	SFDR : 84.83dBc @10MSps, Fin 1 MHz SNR : 68.29dBc @10MSPS, Fin 1 MHz ENOB: 11.03bit @10MSPS, Fin 1 MHz
	Connector	SMB
	External dock input	Number of channels: 1 Signal level: 0.35Vp-p(typ)(sine wave) Input impedance: 1 MΩ / 50 Ω Connector model#: UM-LR-PC-4
	External trigger input	Number of channels: 1 Signal level: LVTTTL Connector model#: UM-LR-PC-4
	General purpose port: DIO	Channel : DI 4ch DO 4ch Signal Level : LVTTTL Connector model#: XG4C-2634
	Trigger	External trigger / Analog trigger / Soft trigger Analog trigger: edge · pulse trigger position: pre / post / delay
	Maximum number of sampling	1G words/ch
	Memory	DDR4 – SDRAM (8GB)
	System Bus	PCI-Express 3.0(Gen3) 8.0GT/s ×8
	Power supply	+12V ± 8%, 3.72A
	Operating environment	Temperature 0 to 50 ° C, Humidity 35% to 85% (Non-condensing)
	FPGA	Kintex Ultra Scale xcku035-ffva1156-2-e (XILINX)
	External dimensions(not including protrusions)	205.15 mm x 106.25 mm, panel width 20 mm
	Supported OS	Windows 7/10, Linux compatible with 32 bit / 64 bit
	Software Development Kit	Windows: AZP-ADAQ-01
	Evaluation Tool	AdapLibTool(Included in AZP-ADAQ-01)
	LabVIEW VI Sample	AdaqlibLabVIEW(Included in AZP-ADAQ-01)
	Environmental compliance	RoHS

Notes)

- The specifications and appearance stated are subject to change without notice.
- Power consumption does not include inrush current.
- In order to use the product correctly, be sure to read the instruction manual before using the product. Also, use the product under the conditions applicable to your product warranty.

Panel

Composition

Block Diagram

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