

Express Converter

고속 A/D 변환 보드 시리즈



APX-5640

12-bit, 6.4GSps A/D Conversion Board

- › High-speed data transmission via PCI Express 3.1a (Gen3) x16
- › DDR4 8GB memory
- › Includes 1CH each for external trigger input and external clock input
- › ADC capable of up to 3.2GSps
- › $\pm 0.5V$ single-ended input for 2CH
- › OFFSET adjustment function
- › A/O for 2CH
- › RoHS2 (2011/65/EU +(EU)2015/863)



Specifications

Model		APX-5640
Analog I/F	Input	Single end 2ch (When interleaved: single end 1ch)
	Input impedance	50 Ω
	Coupling	DC Coupling
	Input range	$\pm 0.5V$
	Resolution	12bit
	Sampling rate	Up to 3.2GSps / interleaved:6.4GSps
	Frequency band	1.5GHz-3dB

	Sampling frequency	800~3200MSPS 1600~6400MSPS(interleaved)
	Analog	SFDR: +58 ~ +66dBc (typ.) SINAD: +53 ~ +55dB (typ.) ENOB: 8.5 ~ 8.8bit (typ.) THD: -65 ~ -61dBc (typ.) SNR: +53 ~ +56dB (typ.)
	External clock input	Channel : 1 Signal level : 0.6Vp-p ~ 2.0Vp-p Frequency : 10MHz or 100MHz Input impedance : 50Ω (AC coupling) Connector : SMA
	External trigger input	Channel : 1 Signal level : LVTTTL Input impedance : 1KΩ/50Ω Connector : SMA
	GP DIO	Channel : DI 4ch DO 4ch Signal level : LVTTTL Connector model name : HDR-EC26LFDT-SLD+
	Analog output	Channel : 2 Resolution : 16bit Output range : ±4V
	Trigger	External trigger/Analog trigger/Software trigger Trigger position : Pre/Post delay
	Memory	DDR4-SDRAM(8GB)
	System BUS	PCI-Express3.1a(Gen3)8.0GT/s × 16
	Power	+12V±8%(34W)
	Operation environment	Temp. : 0~50°C, Humidity : 35%~85% (Non-condensing)
	FPGA	XCKU15P-2FFVE1517E (Xilinx)
	Dimension	240.15mm× 111.15mm, panel width : 20mm
	OS	Windows10 64bit
	Compliance	RoHS2 (2011/65/EU +(EU)2015/863)

Remark)

- Specification and dimension are subject to change without prior notice.
- Power is not including inrush current.
- For correct product usage, please read the user manual carefully before use and ensure the product is used within the warranty scope.

Panel

Software

FPGA Customization

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