

Express Converter

고속 A/D 변환 보드 시리즈



APX-520

18-bit, 200Ksps, 16-channel A/D Conversion Board

- › Uses 18-bit / 200KHz sampling ADC
- › Supports $\pm 5V / \pm 10V$ inputs across 16 channels
- › Equipped with 4 channels each of general-purpose DI:DO
- › Equipped with 4 channels of general-purpose AO
- › Enables memory transfer without CPU involvement using built-in DMA controller
- › Supports PCI Express 2.0 (Gen2) 5.0GT/s $\times 1$



Specifications

Model		APX-520	
AD Circuit	Input channel (Simultaneous Sampling)	16	
	Sampling rate	200KHz(max)	
	Resolution	18bit	
	Anti aliasing filter	22KHz@-3dB($\pm 10V$)/15KHz@-3dB($\pm 5V$)	
	Input impedance	1M Ω	
	Input current	5.4 μA @+10V	
	Coupling	DC	
	Input range	1M Ω	$\pm 5V$ or $\pm 10V$
	Max. input voltage	1M Ω	$\pm 16.5V$

DA Circuit	Output		4ch
	Resolution		16bit
	Output range		-5V~+5V
DIO	Input	Channel	4ch
		Signal level	LVTTL(5V Tolerant)
	Output	Channel	4ch
		Signal level	LVTTL(+3.3V Output)
Trigger/Clock	Internal clock		1Hz~200KHz, adjustable in 1Hz interval (※ Adjusted with a configurable clock)
	External trigger		Input from DI in units of AD8ch
Host I/F			PCI Express2.0×1 Gen2(2.5GT/s)
Power			+3.3V±9% 280mA +12V±8% 510mA
Operation environment			Temp. : 0~50°C, Humidity : 35%~85%(non-condensing)
Dimension			168mm×69mm, panel width 20mm
Weight			110g
Compliance			RoHS
OS			Windows10 64bit

Panel

Block diagram

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