Datasheet

16bit/500MSps/2ch A/D Converter Board	14bit/400MSps/2ch A/D Converter Board
APX-5056	**APX-5040**

APX-5056 (APX-FB01+ADF-5056)	APX-5040
Single ended 4ch	Single ended 2ch
50Ω	50Ω
AC coupling	DC coupling
±1V	±2V、±1V、±500mV
16bit	14bit
125MSps ～ 500MSps	Max. 400MSps(2.5ns)
250MHz -3dB	200MHz -3dB (LC filter built-in)
±2V(Current flow) ±1.5V(Non-current flow)	±5V(Current flow) ±2V(Non-current flow)
SFDR:84.83dBc @10MSps, Fin1MHz SNR:68.29dBc @10MSps, Fin1MHz ENOB:11.03bit @10MSps, Fin1MHz	SFDR:−80.73dBFs @400MSps, Fin1MHz SNR:−60.56dBFs @400MSps, Fin1MHz ENOB:9.75bit @400MSps, Fin1MHz
Channel :1 Signal level: 0.4Vp-p ～ 1.5Vp-p(Sine wave/ Square wave) Frequency : 5MHz ～ 100MHz Input Impedance:1MΩ/50Ω (AC Coupling) Connector type :SMB	Channel :1 Signal level : 700mVpp(typ)(Sine wave/ Square wave) Frequency : 5MHz ～ 100MHz (PPL) 20MHz ～ 400MHz (Direct sampling) Input Impedance : 1MΩ/50Ω (AC Coupling) Connector type :SMA
Channel :1 Signal level :LVTTL Input Impedance:1KΩ/50Ω Connector type :SMB	Channel :1 Signal level :LVTTL (5V Tolerant) Input impedance:1KΩ/50Ω Connector type :SMA
Channel :DI 4ch DO 4ch Signal level :LVTTL Connector type :XG4C-2634	Channel :DI 4ch DO 4ch Signal level :LVTTL Connector Model :HDR-EC26LFDT1-SLD+
	Channel:2ch Resolution:16bit Output range:-4V ～ +4V
External Trigger/ Analog trigger/ Software trigger Analog trigger : Edge, Pulse Trigger Position : Pre, Post, Delay	External Trigger/ Analog trigger/ Software trigger Analog trigger : Edge, Pulse Trigger Position : Pre, Post, Delay
1Gword/1ch	256M word/1ch
DDR4-SDRAM(8Gbyte)	DDR3-SDRAM(2Gbyte)
PCI Express3.0 (Gen3) 8.0GT/s×8	PCI Express2.0 (Gen2) 5.0GT/s×8
+12V±8% , 3.72A	+12V±8% , 3.75A
Temperature : 0 ～ 50℃、Humidity : 35%～ 85% (Non-condensing)	Temperature : 0 ～ 50℃ , Humidity : 35%～ 85% (Non-condensing)
Kintex UltraScale xcku035-ffva1156-2-e(XILINX)	EP4SGX180HF35C2N(Intel)
205.15mm×106.25mm 、 Panel depth 20mm	192.65mm×111.15mm 、 Panel depth 20mm
Windows7/10 (32bit/64Bit)	Windows7/8/10、Linux (32bit/64Bit)
RoHS	RoHS

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