





APX-5040

14 bit/400 MHz high speed sampling A/D conversion Board

- Using high speed ADC with 14 bit / 400 MHz sampling
- Single-ended input of $\pm 2V/\pm 1V/\pm 0.5V$ to 2 ch
- External trigger input · External clock input for each 1 channel
- Supports variable frequency input
- General purpose DI \cdot DO for each 4 ch
- General purpose AO 2 ch
- DDR3-SDRAM (2 Gbyte) is installed as FIFO Memory
- Memory transfer is possible without using a CPU with a built-in DMA controller
- Equipped with Update function of FPGA data
- PCI Express 2.0 (Gen 2) $5.0 \, \text{GT/s} \times 8$ compatible





Specifications

Item	Specification
Model name	APX-5040
Input channel	Single end 2ch
Sampling clock	400MHz
Resolution	14bit
Sampling time	2.5ns(min)
Number of samples	256 M words / 1 channel

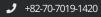
Input range	±2V±1V±500mV
Input impedance	50Ω
Trigger	External trigger / Analog trigger / Soft trigger / DI trigger (Various trigger modes supported by FPGA)
Memory	DDR3 – SDRAM (2 GB)
FPGA	LSI: EP4SGX180HF35C2N (manufactured by ALTERA)
	Trigger type: Internal trigger (analog trigger), external trigger, soft trigger, DI trigger
	Analog trigger: Edge level pulse
	Trigger position: pre / post delay
	User logic: Free space can be customized
5	Input(PPL): 5MHz, 100MHz
External Clock	Input(Direct input): 500MHz, 1000MHz
DA Circuit	Number of outputs: 2 ch
	Resolution: 16 bits
	Output range: -4V to +4V
System bus	PCI-Express2.0(Gen2)5.0GT/s×8
Power supply	+ 12 V ± 9% 3.57 A (45 W)
Operating environment	Temperature 0 to 50 $^{\circ}$ C, humidity 35% to 85% (no condensation)
Size	192.65 mm × 111.15 mm, panel width 20 mm (not including projections)
Weight	232g
Supported OS	Windows 7/8 compatible with 32 bit / 64 bit
Environmental response	RoHS

Notes)

- $\hbox{-} The specifications and appearance stated are subject to change without notice.}\\$
- 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
System configuration
On FPGA customization

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