

# Express Converter

Hi-Speed Digitizer (DAQ) Series



## APX-5360G3A

Resolution 12bit, 3.6 GSps high-speed sampling A/D Conversion Board

- › PCI Express 3.0 (Gen 3) x 8 enables high-speed data transfer
- › DDR3 memory equipped, up to 4G point size data transferable
- › External trigger input · External clock input for each 1 CH
- › Equipped with AD capable of up to 1.8 GSps
- ›  $\pm 0.5$  V Single Ended Input 2 CH
- › OFFSET adjustment function
- › 4 CH LVTTTL level D-IO function (5V tolerant)
- › AO function of 2 CH
- › RoHS compliant



### Specifications

Model#		APX-5360G3A
Analog I/F	Input	Single end 2 ch (interleaved: single end 1 ch)
	Input impedance	50 $\Omega$
	Coupling	DC Coupling
	Input range	$\pm 0.5$ V
	Resolution	12bit
	Sample rate	Maximum 1.8 GSps / Interleaved: 3.6 GSps

	Frequency band	900MHz-3dB
	Input maximum rating	± 2 V (when energized) ± 1.5 V (when no energized)
	Analog performance	SFDR : 68.0dB@1800MSps, Fin1MHz SNR : 56.3dB@1800MSps, Fin1MHz ENOB : 9.0bit@1800MSps, Fin1MHz
	External clock input	Number of channels: 1 Signal level: 0.4 Vp – p to 1.5 V p – p (sine wave / square wave) Frequency: 5 MHz to 100 MHz (when PLL is used) 150 MHz to 1800 MHz (at the time of direct sampling) Input impedance: 1 MΩ / 50 Ω (AC coupling) Connector shape: SMA
	External trigger input	Number of channels: 1 Signal level: LVTTTL Input impedance: 1 KΩ / 50 Ω Connector shape: SMA
	General purpose port: DIO	Number of channels: DI 4ch DO 4ch Signal level: LVTTTL Connector Model name: HDR – EC 26 LFDT 1 – SLD +
	Analog output	Number of channels: 2 Resolution: 16 bits Output range: ± 4 V
	Trigger	External trigger / analog trigger / soft trigger Analog trigger: edge · pulse trigger position: pre / post delay
	Maximum number of samples	2 G words / 2 ch, 4 G words / 1 ch
	Memory	DDR3 – SDRAM (8 GB)
	System bus	PCI-Express3.0(Gen3)8.0GT/s× 8
	Power supply	+12V±8%, +12V/3.4A(40.8W)
	Operating environment	Temperature 0 to 50 ° C, humidity 35% to 85% (no condensation)
	FPGA	5 GXMA 3 K 1 F 40 I 2 N (manufactured by ALTERA)
	External dimensions (not including projections)	220.15 mm x 106.65 mm, panel width 20 mm
	Supported OS	Windows 7/8/10, Linux compatible with 32 bit / 64 bit
	Environmental response	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**

**Software tool**

**Customization**

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