



P160 Analog Module

Product Brief

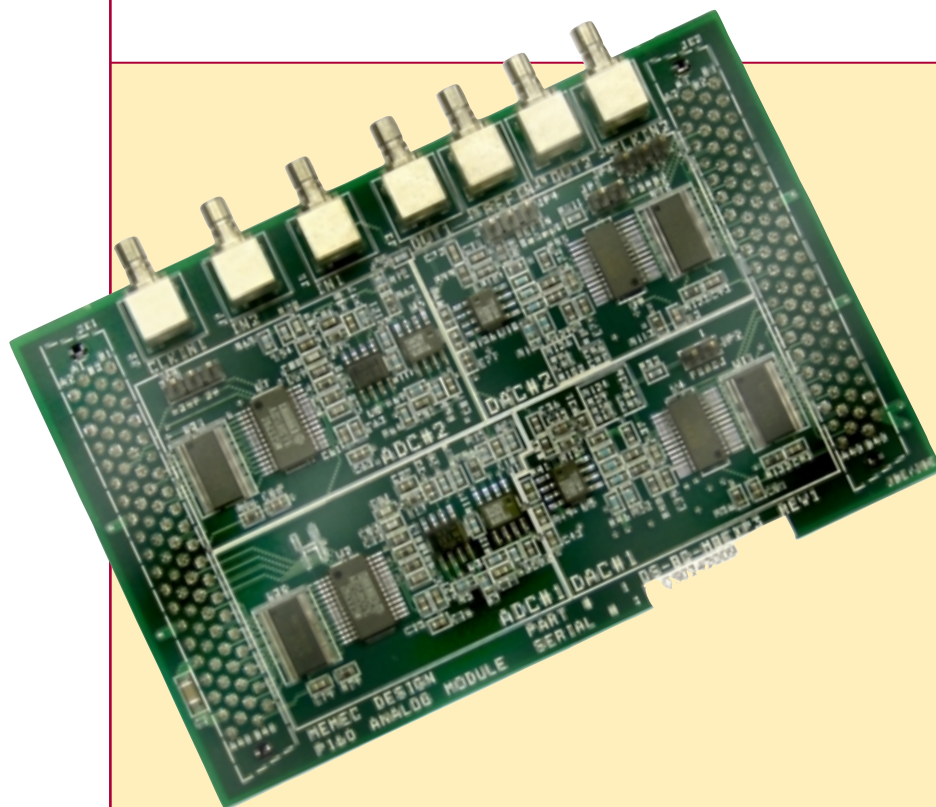
The Memec Design P160 Analog Module is the perfect solution for designers who need to add advanced analog input and output capability to any P160 compatible system board.

Features

- Two 12-bit 53 Msps A/D converters
- AC coupled, single-ended, 1 Vp-p to 1.5 Vp-p analog input
- Two 12-bit 165 Msps D/A converters
- Single-ended, 2 Vp-p analog output
- Two user clock inputs
- DAC reference input
- P160 standard interface
- Low cost and versatile

Applications

- FPGA-based DSP
- Industrial control, communications, and imaging
- IP development
- General purpose development



Product Description

The Memec Design P160 Analog Module provides an advanced analog interface to existing P160 compatible FPGA platforms. Memec Design system boards support the Xilinx Spartan™-II, Spartan™-IIE, Virtex™-II, and Virtex-II Pro™ families, include the P160 interface and can support the Analog Module. The Module enables designers to easily implement dual-channel analog input and output functions, targeting communications, video, and general-purpose mixed-signal applications. The Module

has two 12-bit analog-to-digital (A/D) converters capable of sample speeds up to 53 Msps and two digital-to-analog (D/A) converters capable of 165 Msps conversions, features that make it easier to design and prototype FPGA-based DSP applications. The P160 Analog Module is composed of four independent analog channels, two supporting analog inputs and two supporting analog outputs. The analog input channels are identical in design and include signal conditioning analog front ends. The Texas Instruments ADS807 12-bit, 53 Msps A/D converters

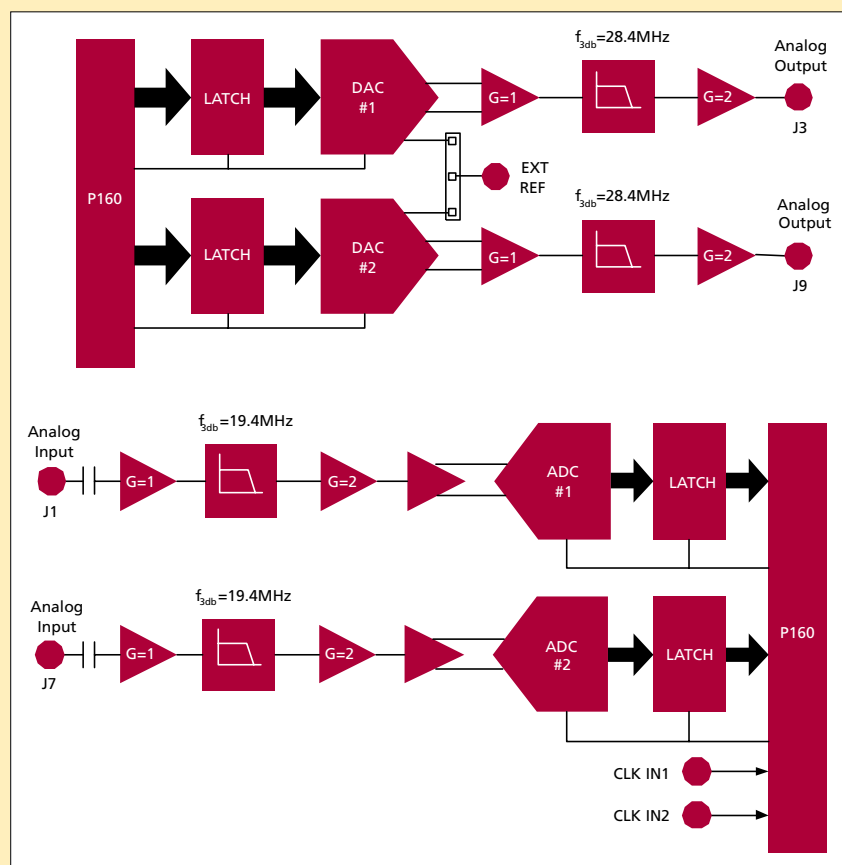
change incoming analog signals into 12-bit data for the FPGA located on the baseboard. Two Texas Instruments DAC902 12-bit, 165 Msps D/A converters generate analog outputs. The D/A outputs include gain and filtering stages.

The Memec Design P160 Analog Module is a useful add-on for many DSP and control-based applications. The advanced analog signaling capabilities simplify application development and help designers quickly and effectively meet their time-to-market requirements.



P160 Analog Module Kit Includes:

- P160 Analog Module
 - Two 12-bit 53-Msps A/D converters
 - AC coupled, single-ended, 1 Vp-p to 1.5 Vp-p analog input
 - Low pass input filter with $f_c = 19.4$ MHz
 - Two 12-bit 165 Msps D/A converters
 - Single-ended, 2 Vp-p analog output
 - AC coupled output optional
 - DAC reference input
 - Low pass output filter with $f_c = 28.4$ MHz
 - Two user clock inputs
 - P160 expansion interface
- Module documentation



Ordering Information

P160 Analog Module Kit

P160 Analog Module Kit

Americas Part

DS-KIT-P160-ANALOG1

International Part

DS-KIT-P160-ANALOG1-EURO