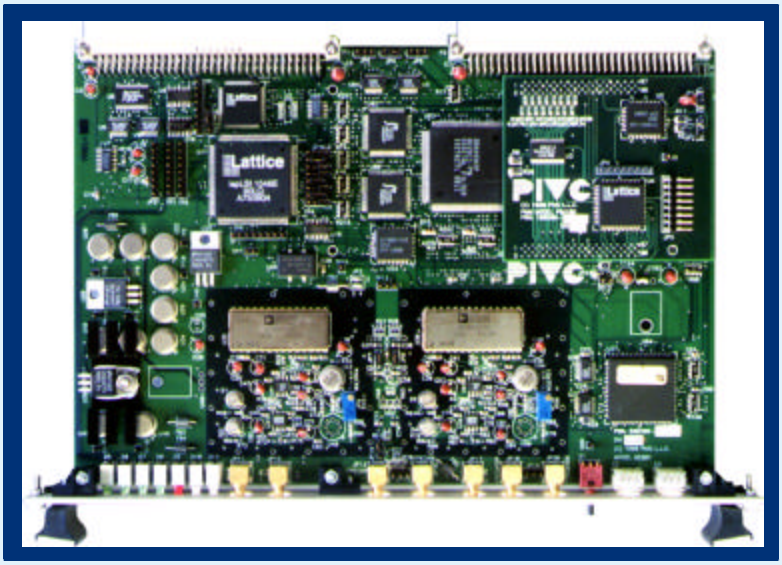
PIVC, L.L.C.

Dual A/D Conversion Board — AD201

Features

- 41 MHz Operation
- 12 Bit Resolution
- 75 dB Spurious Performance
- 65 dB Harmonic Distortion
- Buffered I/O
- Single Slot 6U VME Card
- 160 MB/s P2 Data Transfers
- 3 clock options (PECL, AC, ECL)
- P2 Interface Options
- Gray Chip Filters



Description

Model AD201

The AD201 is a high performance signal conversion board ideal for most signal processing applications. The 6U x 160 mm VME card features Dual 12 bit A/D converters both capable of 41 MHz conversion rates. The A/D conversion is very clean at 75 dB of spurious free dynamic range. The AD201 is equipped with 32K (64K optional) of internal FIFO memory. This memory allows the user to capture A/D data at full speed and transfer the data over the VME interface at a lower speed. Data and control signals are routed to a mezzanine module for full speed transfer over P2 using various protocols.

The AD201 contains a Gray Chip FIR filter for each A/D converter channel. Besides digital filtering, the Gray Chip can be used to down convert the input signal. If raw data is required, a Bypass mode allows data to skip the filter. The output of the A/D can be decimated up to 16 times in any mode. The sampling clock is externally provided and allows conversion rates from 15 to 41 MHz.

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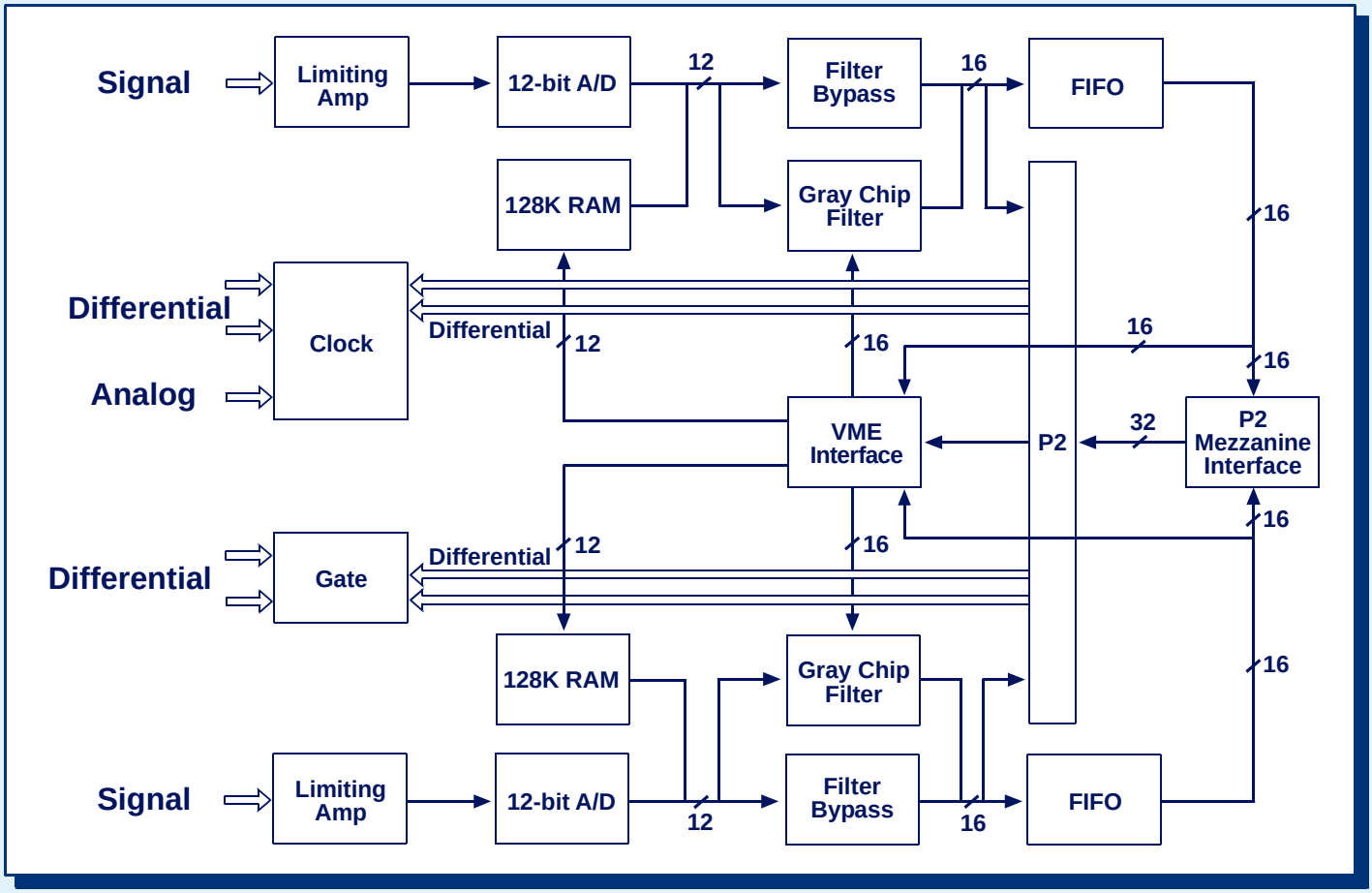

AD201 Block Diagram

Analog to Digital Converter (AD9042) Specifications	
A/D Conversion Rate	41 MHz
Resolution	12 Bits
Full-Scale Input Voltage	+/– 0.8 Volts
Bandwidth	41 MHz
Input Impedance	50 Ohms
VSWR (max)	1.5:1
Spurious Performance	75 dB
Harmonic Distortion	65 dB