High Quality Instruments

# PM480, Dual Channel 105MSPS, 14-bit ADC PMC

## Features



- **105MSPS, 14-bit vertical resolution on 2 channels**
- **Bandwidth 250MHz**
- **128K Samples Buffer**
- **SNR: 70dB @15MHz**
- **SMA Connectors on all signals**
- **Software Drivers for Windows.**

## Description

The PM480 module is a dual channel, 105MSPS, 14-bit ADC conforming to the single PMC form factor. The module samples the analogue inputs on the front panel SMB connectors and sends the raw data in 2s-compliment format to the 64bit/66MHz PCI interface.
The module is set up via the PCI interface or alternatively with the use of DIP switches in the event of the PCI interface not being available. An internal or external trigger signal initiates the sampling process of the module. The sampling clock is selectable from either an external source or on-board oscillator.
The module's analogue interfaces are situated on the front panel and comprise of the ADC inputs and the external clock and trigger inputs.

**Converter Characteristics**

- Converters Analog Devices AD6645 ADCs
- SNR: 70dB @ 15MHz
- SFDR: 85dBc @ 70MHz
- Channel isolation: 60dB
- Sampling resolution: 14-bits
- 2 Single ended analogue inputs
- AC coupled 100KHz - 250 MHz analogue input bandwidth
- Full-scale input voltage: 2Vp-p (+/- 1V)
- Full-scale input power: 10dBm
- Input Impedance: 50 Ohm

**Clock Input**

- Clock range: 30 - 105 MHz
- Input voltage: PECL single ended or Sine wave: 1Vp-p (+/- 0.5 V)
- Input Impedance 50 Ohm

**Trigger Input**

- PECL single ended
- Input Impedance 50 Ohm

**PCI Interface**

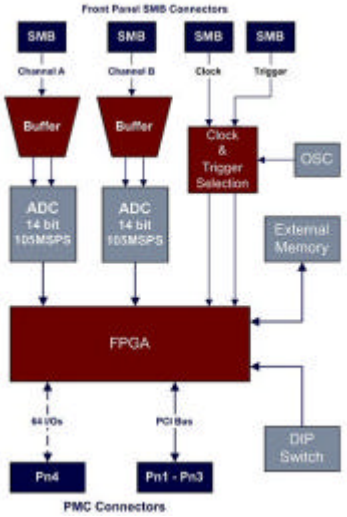
- 64 bit, 66MHz PCI interface

**Buffering**

- On-board ZBT RAM Data buffer: 128K samples per channel

**Front Panel**

- Status LEDs
- SMB connectors




## Software Support

- Device driver for Windows 2000/XP
- Device driver API documentation and sample source code
- Test / demonstration application
- Custom FPGA firmware / application / driver development available upon request

## Applications

- **High-bandwidth sampling**
- **Wideband receiver subsystems**
- **Radar**
- **Sonar**
- **IF Sampling**
- **Multi-channel digital receivers**


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