

## Summary of features/benefits:

Microchip's 200Msps high speed, compact pipelined ADC portfolio is a great choice for your analog to digital conversion requirements where low power consumption and high reliability are needed. The MCP37DXX high-speed ADCs include integrated Digital Signal Post-Processing (DSPP) options such as Decimation Filters and Digital-Down Converters that alleviates post processing demands on MCU/MPU and help simplifying customer designs, optimizing total system cost and improving accuracy.

Here at Microchip, all of our products come with exhaustive datasheets and exceptional after sale support that is known to develop trust-advisor relationship with customers.

- **Ultra low power high-speed A/D converters**
  - Lowest power consumption for the multi-channel 12/14/16-bit 200Msps ADCs
- **Available in compact, Pb-free VTLA(9X9mm) and TFBGA(8X8mm) packages**
  - BGA package, which removes the need for external reference decoupling capacitor
  - Package Options:
    - (a) TFBGA-121 (8 mm x 8 mm x 1.08 mm):
      - - AEC-Q100 qualified **NEW**
      - - Temperature Grade 1: **-40°C to +125°C NEW**
    - (b) VTLA-124 (9 mm x 9 mm x 0.9 mm)
      - - Temperature Range: **-40°C to +85°C**
- **AutoSync mode to synchronize multiple devices to the same clock (provides great design flexibility when multiple devices are used)**
- **Available features such as FDR, Gain/offset adjustment are valuable for the ultrasound doppler signal processing applications**

## Typical Applications

- **Communication Instruments**
- **Microwave Digital Radio**
- **Cellular Base Stations**
- **Lidar and Radar**
- **Ultrasound and Sonar Imaging**
- **Low-Power High-Speed Instruments**