



NXP ultra-low power 8-bit 40 Msps universal ADC0801S040

Proven solution for universal signal conversion

Offering up to 40 Msps and ultra-low power consumption, our 8-bit universal analog-to-digital converter (ADC) ADC0801S040 brings high performance data conversion to low voltage systems requiring high-speed sampling. It's just one from our extensive range of advanced, high-speed data converters for wireless, medical and industrial applications.

Key benefits

- ▶ Excellent front-end analog performance combined with high speed operation
- ▶ Best in class linearity and signal-to-noise ratio
- ▶ Optimized size and cost
- ▶ Ultra-low power

Key features

- ▶ 7.3 effective bits at 4.43MHz
- ▶ DNL: +/- 0.25 LBS
- ▶ Integrated input buffer
- ▶ No input buffer amplifier needed
- ▶ 5 V / 2.7 V power supply
- ▶ 30 mW power dissipation
- ▶ SSOP20 package

Key applications

- ▶ GPS
- ▶ Digital ratio
- ▶ Car climate control
- ▶ Animal tracking collar
- ▶ Car alarm system
- ▶ Multi-purpose data conversion

Ideal for video and general purpose applications, our universal ADC0801S040 converts analog input signals into 8-bit binary-coded digital words at a maximum sampling rate of 40 Msps. Operating from supplies ranging from 2.7 to 5.5 V, the device delivers ultra-low power consumption, which is further reduced to only 4 mW in sleep mode.

Typical application

