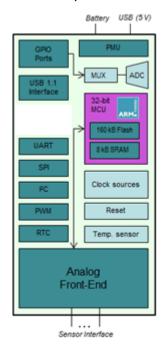


Anton Features

- ARM M0 32-Bit MCU
- 160kB Flash RAM
- 8kB SRAM
- One 16-Bit Sigma-Delta ADC
- Two 14-bit DACs
- USB 1.1 Interface
- Integrated PMIC
- 18 GPIO control pins
- RTC with Date/Time/Alarm
- 12MHz RC Oscillator
- Buffered 32.768 kHz Clock
- 10kHz Auxiliary Clock
- UART, I²C, SPI interfaces
- 3V Battery or USB Powered



Recommended Applications

 Commercial and Home Medical Applications

ADK87204 - "Anton"

General Purpose ARM M0 uC with Advanced AFE and USB Interface

Device Description

Anton is part of AyDeeKay's line of ARM M0-based products specifically tuned for the Sensing/Medical applications space. It is a highly integrated system on chip (SoC) with an advanced analog front end (AFE) capable of being used in systems with the most advanced chemical analysis requirements for commercial and home medical applications.

Anton contains a high performance 32-bit ARM M0 core with 160kB of flash RAM and 8kB of SRAM. A real time clock (RTC), 12MHz RC oscillator, 32kHz sleep mode clock, 10kHz auxiliary clock, and watchdog timer are all fully integrated on die for high performance, low power design.

The high performance analog front end (AFE) consists of a state of the art 16-Bit sigma-delta ADC and two 14-Bit DACs, which together allow for fast, highly precise chemical measurements with low calibration requirements. Anton also includes a USB 1.1 serial interface supporting control, bulk, and interrupt transfers so that data can be easily stored or transferred.

Anton includes integrated power management and is capable of running entirely from either a 3V battery or the 5V USB interface. No other components are required for power regulation of the IC, creating an efficient, low cost design.

Anton also easily interfaces to any other discrete SoCs through standardized UART, I²C or SPI interfaces and provides 18 GPIO controls to interface with other on board components.

The entrie device is packaged in a low-cost 7x7mm QFN package and operates from -40C to +85C. Anton has been certified in medical devices and is currently available in mass production quantities.

Ordering Information

Device Ordering Name	Platform	Temp Range	Package	Pins
ADK87204	Commercial and	-40 C to	7x7 mm	48 Pins @
Anton	Home medical glucose	+85C	QFN	0.5 mm
	appliances			Pitch