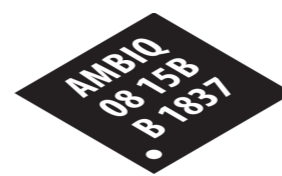


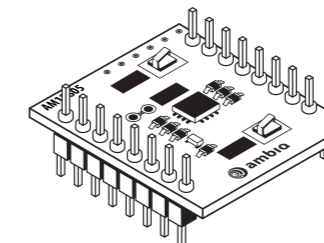
RTC Products Overview



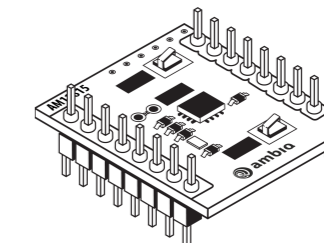
AM0805



AM0815



AM1805



AM1815

Ultra-Low Supply Current

< 14nA with RC oscillator
< 22nA with RC oscillator and autocalibration
< 55nA with crystal oscillator

< 14nA with RC oscillator
< 22nA with RC oscillator and autocalibration
< 55nA with crystal oscillator

< 14nA with RC oscillator
< 22nA with RC oscillator and autocalibration
< 55nA with crystal oscillator

< 14nA with RC oscillator
< 22nA with RC oscillator and autocalibration
< 55nA with crystal oscillator

Baseline Timekeeping

Crystal (XT) Oscillator

✓

✓

✓

✓

Number of GP Outputs

4

3

4

3

Advanced Timekeeping

RC Oscillator

✓

✓

✓

✓

Calibration/Auto-calibration

✓

✓

✓

✓

Watchdog timer (WDT)

✓

✓

✓

✓

RAM (Bytes)

256

256

256

256

Enhanced I/O and Power Management

VBAT Switch

✓

✓

✓

✓

External Interrupts

✓

✓

✓

✓

Reset Management

-

-

✓

✓

Power Switch and Sleep Finite State Machine (FSM)

-

-

✓

✓

Programmable Charging Current

-

-

✓

✓

Interface

I²C up to 400kHz

3/4-wire SPI up to 2MHZ

I²C up to 400kHz

3/4-wire SPI up to 2MHZ

Wide Operating Range

Operating Voltage

1.5-3.6V

1.5-3.6V

1.5-3.6V

1.5-3.6V

Operating Temperature

-40°C to 85°C

-40°C to 85°C

-40°C to 85°C

-40°C to 85°C

Package Option

3 mm x 3 mm 16-pin QFN package

3 mm x 3 mm 16-pin QFN package

3 mm x 3 mm 16-pin QFN package (also available in wafer form)

3 mm x 3 mm 16-pin QFN package (also available in wafer form)

Ordering Information

- AM0805AQ
- AM1805I2CEVB (EVB)

- AM0815AQ
- AM1815SPIEVB (EVB)

- AM1805AQ
- AM1805I2CEVB (EVB)

- AM1815AQ
- AM1815SPIEVB (EVB)