# FM2305A Single-Phase Single-Rate Watt-Hour Meter IC

FM2305A has embedded 8 bits RISC MCU, electricity pulse counter, UARTs, LCD/LED driver, etc. It can realize the whole power meter's control in one chip.

## **Key Features**

- Embedded MCU, compatible with PIC16C6X
- Embedded 4K×14 bits EEPROM
- 192X8 bits SRAM
- one 8-bit timer/counter, one 16-bit timer
- Multi-functional electricity pulse counter, support both electricity and power measurement
- Two UARTs, one can be configured as infrared modulation output (38kHz modulation)
- 4×32 LCD display driver/14×8 LED scan display
- Voltage monitor circuit, includes power on reset, power off reset and low power voltage detection
- Hardware Watchdog

## **Electrical Characteristics**

- Operating temperature: 40 °C ~ + 85 °C
- Operating voltage: 2.5V ~ 5.5V
- Operating current:

Typical high-speed mode: 5.0 mA

Sleep mode: 1 µA

### FM2305A Single-Phase

#### Single-Rate Watt-Hour Meter IC

#### Pin Assignment QFP64 (14 mm × 14 mm) **Shanghai Fudan Microelectronics** RXD1/PDAT Co., Ltd. Address: Bldg No. 4, 127 Guotai Rd, Shanghai City China. Postcode: 200433 48474645444342414039383736353433 32 Tel: (86-21) 6565 5050 XTAL1 □□ **FOUT** Fax: (86-21) 6565 9115 50 DIRIN XTAL2 31 51 VLCD 30 RC3/SEG27 VDDI 52 29 RC2/SEG26 **Shanghai Fudan Microelectronics VSS** RC1/SEG25 (HK) Co., Ltd. VDD 54 27 RC0/SEG24 RC4/SEG28 55 26 SEG23 Address: Unit 506, 5/F., East Ocean RC5/SEG29 56 25 SEG22 FM2305A Centre, 98 Granville Road, SEG21/DIG13 RC6/SEG30 57 24 RC7/SEG31 23 SEG20/DIG12 Tsimshatsui East, Kowloon, Hong PROG 59 22 SEG19/SEGH Kong 21 COMO 60 SEG18/SEGG COM1 20 Tel: (852) 2116 3288 2116 3338 61 VSSP COM2 62 19 **VDDP** Fax: (852) 2116 0882 сомз 🖂 SEG17/SEGF 64 ☐ SEG16/SEGE NC CT 2 3 4 5 6 7 8 9 10111213141516 **Beijing Office** Address: Room.1208, Bldg C, SEG10/DIG10 SEG11/DIG10 SEG12/SEGA | SEG13/SEGB | SEG14/SEGC | SEG15/SEGD SEG0/DIG0 SEG1/DIG1 SEG2/DIG2 SEG3/DIG3 SEG4/DIG4 SEG5/DIG5 SEG6/DIG6 SEG8/DIG6 SEG8/DIG6 SEG8/DIG6 Zhongguancun Science and Technology Development Edifice, 34 zhongguancun Street (South),

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**Function** 

Diagram

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#### **Trademarks**

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