

New Products Introduction

March 2018



XMC1302 in TSSOP28

32-bit Microcontrollers with ARM® Cortex®-M0

32-bit Microcontrollers with ARM® Cortex®-M0 with focus on low-cost embedded control applications. XMC1300 family can integrate the motor control and analog interface functions required for sensor less Field Oriented Control (FOC), brushless (BLDC), brushed DC and PMSM motors.

Features

The XMC1300 family has specific peripherals that fit perfectly to your motor control applications.

- MATH co-processor
- 8 – 200 KB Flash
- 16 KB Ram
- Motor control SW
- POSIF encoder
- CCU8 PWM timer/Up to
- 3 x Comparators
- 2 channel USIC (configurable to SPI, UART, IIC, IIS)

Benefits

- Easy to use motor control libraries available for BLDC, FOC and PMSM motors
- High performance and energy optimized solution
- DAVE™ Apps IDE – improved time-to-market
- Extended range of packages options

Competitive advantage

- Compact size (TSSOP28)
- Better for wave soldering process
- Integrated MCU for multiple motor control applications

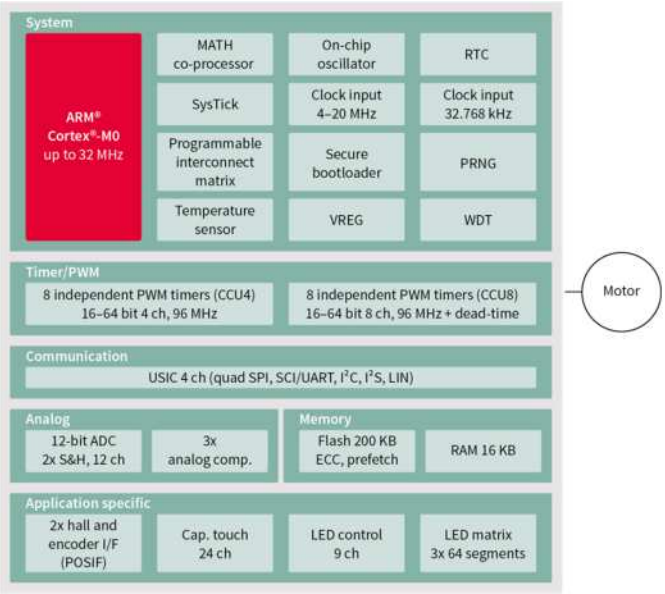
Product collaterals / online support

- Sales presentation
- Product family page

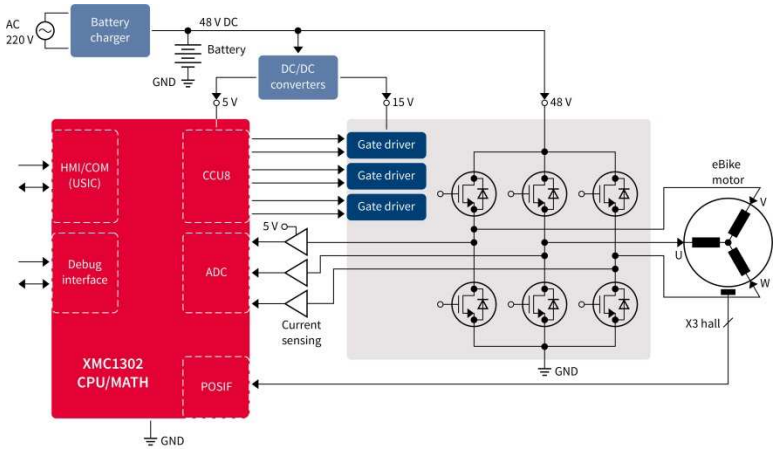
Target applications

- Motor Control (eBike, power tool)
- Smart Lighting
- Switched mode power supplies
- Home appliances/
- Pumps Refrigerators
- Fan controllers

Block diagram



Block diagram of an eBike controlled by the XMC1302 MCU



Product overview incl. datasheet link

OPN	SP Number	Registrable	MDQ/MQQ/MOQ	Package	DC in EUR/ 100pcs
XMC1302T028X0200ABXUMA1	SP001789638	Y	3000/3000/3000	PG-TSSOP-28	101,89

IMPORTANT: The information presented is valid from 1st of January 2018. Please check the latest Distribution Price Book for current prices and minimum quantities