



**8-bit price
for 32-bit power.**

Switch to XMC1000 now!



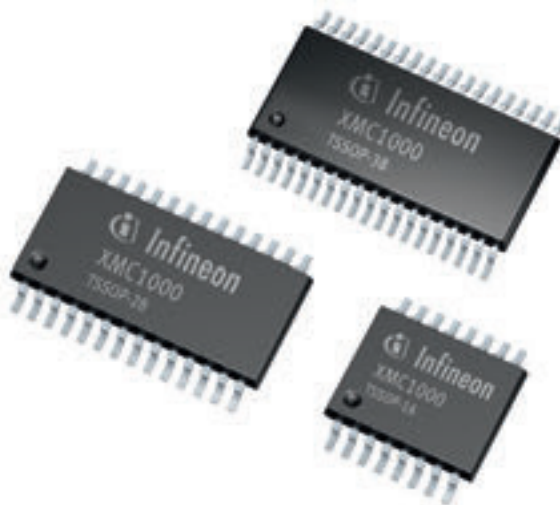
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The new XMC1000 product family drastically improves today's 8-bit applications' performance to 32-bit power. Integrated into a leading-edge 65nm manufacturing process, the price for this new ARM® Cortex™-M0 based microcontroller, however, remains at the 8-bit level.

XMC1000 is the entrance ticket into the XMC world. Peripherals like timers, A/D converters and serial communication interfaces are common with XMC4000 products. The DAVE™ software development environment is available for XMC1000 as well as free download.

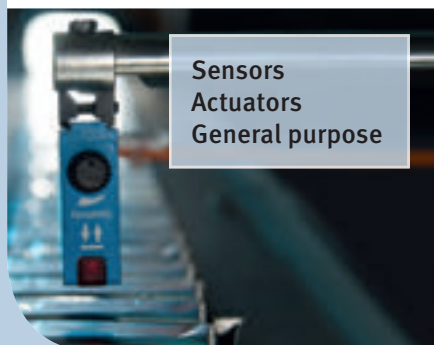
There are three series with more than 20 products in three package types. XMC1100, XMC1200 and XMC1300 support software re-use plus easy interchange of hardware with certain packages.



XMC1000 Key Features

- 32-bit ARM® Cortex™-M0, 32MHz
- 8kB to 200kB Flash memory most scalable Flash portfolio in low-end
- AES 128-bit secure loader for SW IP protection
- Patented LED color control engine
- Leading edge XMC mixed signal and timer peripherals
- IEC 60730 class B compliant
- Peripherals for touch and LED display control
- 64MHz MATH Co-processor for advanced control loops (CORDIC / DIVIDE)
- Extended temperature range up to 105°C

Start evaluation of XMC1000 with our Boot Kits available for each series XMC1100, XMC1200 and XMC1300. For a deeper dive into application fields like LED lighting or motor control choose our Application Kits. www.infineon.com/xmc-dev

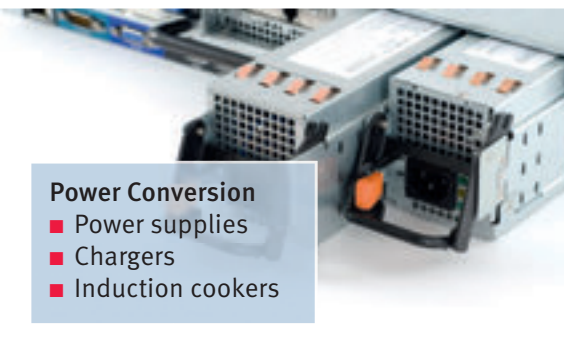


**Sensors
Actuators
General purpose**



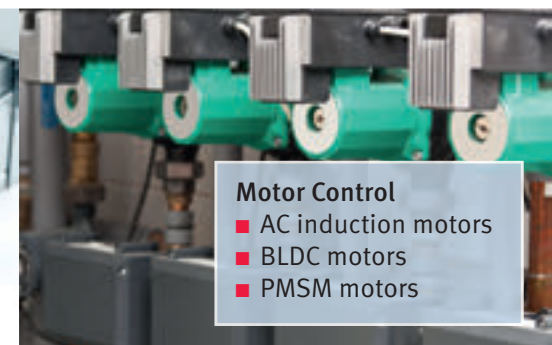
LED Lighting

- Color control
- Brightness control
- Connectivity



Power Conversion

- Power supplies
- Chargers
- Induction cookers



Motor Control

- AC induction motors
- BLDC motors
- PMSM motors

XMC1000 Family

ARM® Cortex™

DAVE™

www.infineon.com/XMC1000

		XMC1100	XMC1200	XMC1300
System Performance	Core	ARM® Cortex™-M0		
	CPU Frequency	32MHz		
	Co-Processor			MATH ¹⁾
	Flash Size	8–64kB	16–200kB	8–200kB
	RAM Size	16kB	16kB	16kB
Timers	POSIF			1x
	CCU4 (4ch)	1x	1x	1x
	CCU8 (4ch)			1x
Signal Processing	ADC 12-bit	1x	1x (2x S&H)	1x (2x S&H)
	Comparator		Up to 3x	3x
Communication	Serial Channels (UART, SPI, I ² C, I ² S)	2 Channels	2 Channels	2 Channels
Application Specific	Touch Control/LED Display Matrix		✓ ²⁾	
	LED Dimming & Color Control		✓ ³⁾	✓ ¹⁾

1) Not valid for all variants of this product series 2) Only for XMC1201 sub-series 3) Only for XMC1202 sub-series