

ARM MCU, XMC™, XMC Family XMC48xx Series Microcontrollers, ARM Cortex-M4, 32bit, 144 MHz, 2 MB

Manufacturers	Infineon Technologies Corporation
Package/Case	196-LFBGA
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for XMC4800E196K2048AAXQMA1 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours. [RFQ](#)

General Description

The XMC4800 device is a member of the XMC4000 family of microcontrollers based on the ARM Cortex-M4 processor core. The growing complexity of today's energy efficient embedded control applications are demanding microcontroller solutions with higher performance CPU cores featuring DSP and FPU capabilities. The XMC4800 family of microcontrollers take advantage of Infineon's decades of experience in the industrial market to provide an optimized solution to meet the performance challenges of today's embedded control applications. First-ever EtherCAT® node on an ARM® Cortex®-M microcontroller with on-chip flash and analog/mixed signal capabilities.

>See full portfolio and find related EtherCAT® kits

Features

ARM® Cortex®-M4 @ 144MHz

2048kB Flash, 352kB RAM

Data and IP Protection on Flash

EtherCAT® node

Supply voltage range: 3.13 - 3.63V

6 x CAN node

EthernetMAC, USB-OTG, SD/MMC

6 channel USIC (configurable to SPI, UART, IIC, IIS)

4 x 12-bit ADC, 18 input channels, 4 x parallel sampling and conversion

2 channel 12bit DAC

4 channel $\Delta\Sigma$ Demodulator

24 x 16-bit special purpose timers, dead time generation

2 x Position Interface

Watch Dog Timer, Real Time Clock

XMC4000 Functional Safety Package

Package: LFBGA196

Temperature range:-40 - 125°C

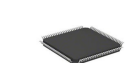
SDIO/SD/MMC Interface

Application

Guaranteed availability through 2031 or longer

Pin and code compatibility with the established XMC4000 microcontroller family

Related Products



[XMC4500F100K1024ACXQSA1](#)

Infineon Technologies Corporation

100-LQFP



[XMC4500F144F1024ACXQMA1](#)

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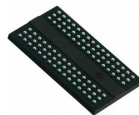
144-LQFP



[XMC4700E196K2048AAXQMA1](#)

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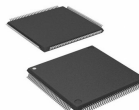
196-LFBGA



[XMC4500F144K1024ACXQMA1](#)

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144-LQFP





[XMC4300F100F256AAXQMA1](#)

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100-LQFP



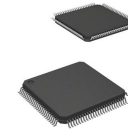
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