ARM MCU, XMC™, XMC Family XMC43xx Series Microcontrollers, ARM Cortex-M4, 32bit, 144 MHz, 256 KB

Manufacturers	Infineon Technologies Corporation
Package/Case	100-LQFP
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	

Images are for reference only

Please submit RFQ for XMC4300F100F256AAXQMA1 or Email to us: sales@ovaga.com We will contact you in 12 hours.   RFQ

General Description

The XMC4300 devices are members of the XMC4000 family of microcontrollers based on the ARM Cortex-M4 processor core. The XMC4300 combines the extended functionality and performance of the ARM Cortex-M4 core with powerful on-chip peripheral subsystems and on-chip memory units. The XMC4300 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.

EtherCAT ® node on an ARM® Cortex ®-M microcontroller with on-chip flash and analog/mixed signal capabilities with outstanding Flash to RAM ratio.

>See full portfolio and find related EtherCAT® kits

Features   Application

ARM ® Cortex ®-M4 @ 144MHz

Guaranteed availability through 2031 or longer

Pin and code compatibility with the established XMC4000 microcontroller family

256kB Flash, 128kB RAM

I/O modules

Data and IP Protection on Flash

Sense, control, drive, communicate - these tasks are versatile and complex on the field level. But there is a perfect I/O module for every dedicated task. Typically, I/O modules form compact in size, thereby providing limited PCB space, but are demanding in relation to the microcontroller features needed to fulfill their tasks. In the event that the backbone bus requires more bandwidth than CAN or serial communication can provide, the XMC4300 is the right choice.

EtherCAT ® node

2 x CAN nodes

Supply voltage
range: 3.13 -
3.63V

EthernetMAC,
USB-OTG,
SD/MMC

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

2 x 12-bit ADC,
14 input channels,
2 x parallel
sampling and
conversion

2 channel 12bit
DAC

Peripherals Clock:
144 [MHZ]

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

Watch Dog Timer,
Real Time Clock

XMC4000
Functional Safety
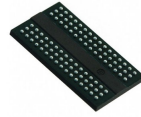Package

Package:
LQFP100

Temperature
range: -40 - 85°C
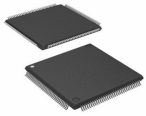
Long-term
availability with
>15 years

Related Products

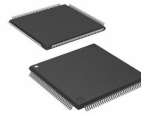XMC4500F100K1024ACXQSA1

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100-LQFP

XMC4700E196K2048AAXQMA1

Infineon Technologies Corporation

196-LFBGA

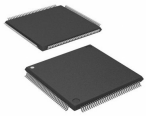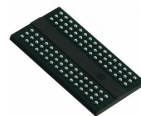XMC4500F144F1024ACXQMA1

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144-LQFP

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XMC4700F144K2048AAXQMA1

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144-LQFP

XMC4800E196K2048AAXQMA1

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