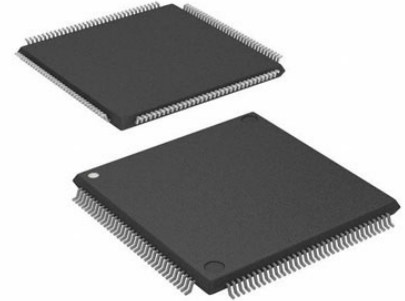


MCU 32-bit TriCore RISC 2.5MB Flash 3.3V/5V Automotive 144-Pin LQFP EP T/R

Manufacturers	Infineon Technologies Corporation
Package/Case	144-LQFP
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for TC264D40F200WBCKXUMA1 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

SAK-TC264D-40F200W BC belongs to the AURIX™ TC26xD family. Its innovative multicore architecture, based on up to three independent 32-bit TriCore CPUs, has been designed to meet the highest safety standards, while simultaneously increasing performance significantly. Products of the TC26xD are equipped with a dual TriCore with up to 200 MHz, a single voltage supply of 5V or 3.3V and a Powerful Generic Timer Module (GTM) to aim for reduced complexity, best-in-class power consumption and significant cost savings.

Key features:

Dual TriCore with 200MHz/ DSP functionality

2.5MB Flash w/ ECC protection

240KB RAM w/ ECC protection

48x DMA channels

3x Delta-Sigma ADC converters

48x 12bit SAR ADC converter

Powerful Generic Timer Module (GTM)

Sensor interfaces : **6xSENT**, **3xPSI5** , **1xPSI5S**

State of the art connectivity : Ethernet 100 Mbit , 1x FlexRay, **4xASCLINs**, **4xQSPI** , **1xI²C** , **2xMSC** , **1xHSSL** , **I²S** emulation, **5xCAN** including data rate enhanced CAN FD

Single voltage supply 5V or 3.3V

PG-LQFP-144 Package

Ambient temperature range -40C°...+125C°

Most innovative safety:

Diverse Lockstep Core with clock delay

Redundant and diverse timer modules (GTM, CCU6 , GPT12)

Access permission system

Safety management unit (SMU)

Direct Memory Access (DMA)

I/O, clock, voltage monitor

Developed and documented following ISO 26262 to support safety requirements up to ASIL-D

AUTOSAR V3.2 and V4.x

Applications:

Industrial applications:

Industrial robots (advised for this product)

Solar panels

Wind turbine inverters

IO controller

Servo drives

Elevators

Inverters

Safety applications:

Air bag System

Chassis domain control

Braking

Pixel lighting

Scable EPS solution

Full feature sensor fusion

Multi-purpose camera

Active suspension control system

Automotive 24 GHz radar system

Highly integrated automotive 77 GHz radar chipset

Sensor fusions

Connectivity Applications:

Wireless Charging Solution

Advanced gateway architecture

Telematic Control unit and V2X

High-feature Body Domain Control unit

Transportation applications:

Commercial and Agricultural Vehicles (CAV)

CAV 24 GHz radar

Commercial and Agricultural Vehicles (CAV)

Drones/Multicopters

Powertrain applications:

Transference

Gasoline multi-port injection – discrete solution

Gasoline direct injection

Driving Domain Controller (DDC) :

Automatic transmission – hydraulic control

Double-clutch transmission – hydraulic control

Double-clutch transmission – electrical control

(H)EV applications:

(H)EV battery management system

EV charging station

(H)EV main inverter

DC-DC Converter

Related Products



[SAK-TC1766-192F80HL](#)

Infineon Technologies Corporation
LQFP176



[SAK-TC1797-512F180E](#)

Infineon Technologies Corporation
416-BBGA



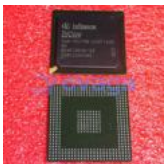
[SAK-TC1767-256F80HLAD](#)

Infineon Technologies Corporation
LQFP-176



[SAK-TC1764-128F80HLAA](#)

Infineon Technologies Corporation
LQFP-176



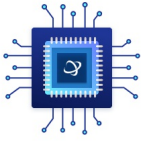
[SAK-TC1796-256F150EBD](#)

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BGA



[SAK-TC1796-256F150EBC](#)

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BGA



[TC265D40F200WBBKXUMA1](#)

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IN-2017



[SAK-TC1767-256F133HL](#)

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QFP-176