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What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Active
Core Processor	TriCore™
Core Size	32-Bit Tri-Core
Speed	200MHz
Connectivity	ASC, CANbus, Ethernet, FlexRay, HSSL, I ² C, LINbus, MSC, PSi5, QSPI, SENT
Peripherals	DMA, WDT
Number of I/O	169
Program Memory Size	4MB (4M x 8)
Program Memory Type	FLASH
EEPROM Size	64K x 8
RAM Size	472K x 8
Voltage - Supply (Vcc/Vdd)	3V ~ 5.5V
Data Converters	A/D 60x12b, 6 x Sigma-Delta
Oscillator Type	External
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Surface Mount
Package / Case	292-LFBGA
Supplier Device Package	PG-LFBGA-292-6
Purchase URL	https://www.e-xfl.com/product-detail/infineon-technologies/tc277tp64f200ndckxuma1



SAK-TC277TP-64F200N DC

Access to complete AURIX™ documentation!

1. Please register under myinfineon.com with your company e-mail address
2. Send login name to: AURIX@infineon.com
3. Automated update service will be provided for new documents once you are registered

[More Information](#)

Parametrics

Parametrics	SAK-TC277TP-64F200N DC
A/D Input Lines	60
CAN Nodes	4
Clock Frequency max	200.0 MHz
DMA Channels	64
DSP Functionality	yes
EEPROM Emulation	yes

Parametrics	SAK-TC277TP-64F200N DC
External Bus Interface	no
Fast Flash Programming	no
FlexRay™	yes
Floating Point Unit	yes
I/O Operation Voltages	3.3 V 5.0 V
Instruction Set Architecture	TriCore™ v1.6P (32-bit) TriCore™ v1.6E (32-bit)
Instruction Width ([bits])	32/16
Number of ADC Modules	14.0
On-chip Clock Generation	yes
On-chip Voltage Regulator	yes
Oscillator Watchdog	yes
Program Memory	4.0 MByte
Real Time Clock	yes
SRAM (incl. Cache)	472.0 kByte

Parametrics	SAK-TC277TP-64F200N DC
Temperature	-40°C – +125°C
Touch/LED Matrix Control	no
Type of Memory	Flash
Watchdog Timer	yes

Documents

Application Notes

- [An introduction to MTV Multi-Core Debug Solution \(MCDS\) Trace ViewerEN](#)

01_00 | 2018-04-03 | pdf | 1.1 MB

- [EMC and System-ESD Design Guidelines for Board LayoutEN](#)

01_00 | 2018-03-15 | pdf | 3 MB

Material Content Sheet Info

- [MCDS 2018-01-22 19-25-32 MA001660236 PG-LFBGA-292-6EN](#)

01_00 | 2018-02-05 | pdf | 28 KB

Product Selection Guide

- [Power and Sensing Selection Guide 2018EN](#)

00_00 | 2018-02-19 | pdf | 23.9 MB

[Presentations](#)

- [Microcontroller Pocket GuideEN](#)

01_00 | 2018-02-22 | pdf | 2.6 MB

Order

Sales Product Name	SAK-TC277TP-64F200N DC
OPN	TC277TP64F200NDCKXUMA1
Product Status	active and preferred
Package name	PG-LFBGA-292
Completely lead free	yes
Halogen free	yes
RoHS compliant	yes
Packing Size	1000
Packing Type	TAPE & REEL
Moisture Level	
Moisture Packing	DRY