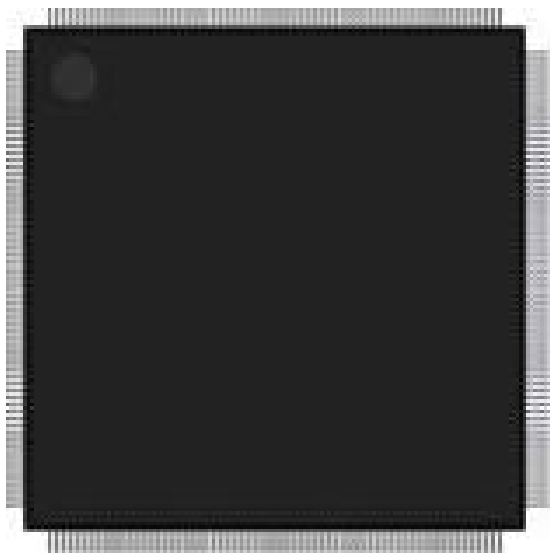




Microprocessor MCp042P200102 is designed on the basis of multicellular architecture and includes multicellular processor core.

Microprocessor MCp042P200102 is applicable for general industrial purposes and as an auxiliary in SiP chip assemblies for space on-board equipment requiring advanced peripherals.

Available in LQFP-256 plastic package:

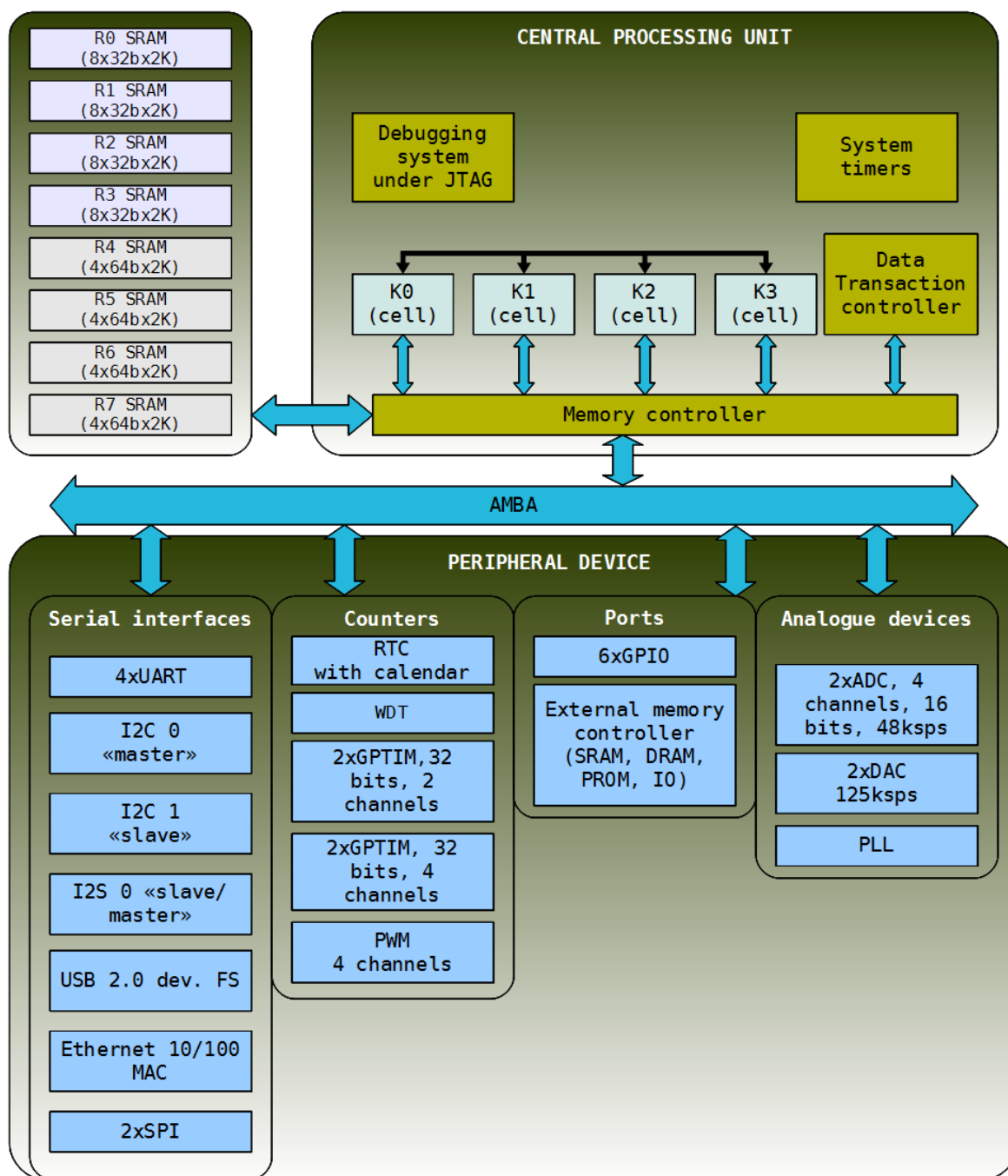
MCp042P200102-LQ 256 I, temperature range -40°C... + 85°C

MCp042P200102-LQ 256 M, temperature range -60°C... + 125°C

General advantages:

high performance and simultaneous reduction of power consumption (P series – Performance)

Basic technical characteristics:



Parameters MCp042P200102-LQ256

Core MCp042P2

Amount of cells 4

Architecture multicellular

Package type LQFP-256 28x28 mm

Technical process 0,18 µm

Word length	32/64 bit
Clock frequency	150 MHz
PLL (input frequency 8-16 MHz)	+
Performance	3,6 GFLOPS
Data memory	256 Kb
Program memory	256 Kb
Voltage	core - 1,8 V periphery - 3,3 V
Maximum power consumption	0.6 W
Floating point (double precision IEEE – 754 FPU)	+
DAC (12 bit, 125 KSPS for each channel)	2 channels
ADC (16 bit, 48 KSPS for each channel, with PGA)	8 channels