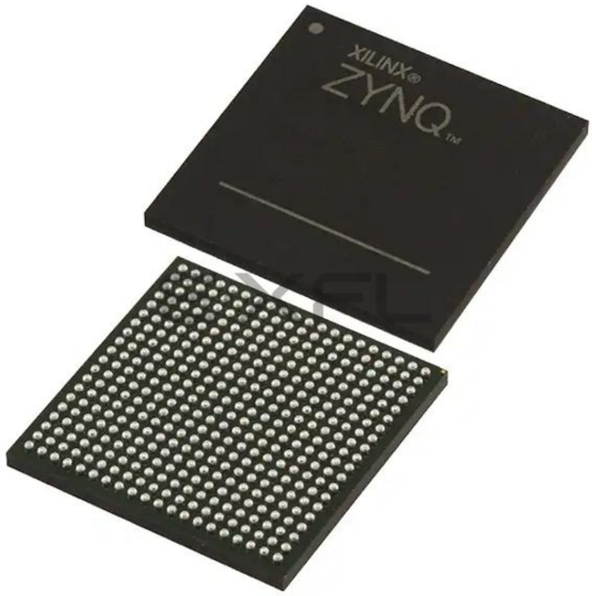

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Embedded - System On Chip (SoC): The Heart of Modern Embedded Systems

Embedded - System On Chip (SoC) refers to an integrated circuit that consolidates all the essential components of a computer system into a single chip. This includes a microprocessor, memory, and other peripherals, all packed into one compact and efficient package. SoCs are designed to provide a complete computing solution, optimizing both space and power consumption, making them ideal for a wide range of embedded applications.

What are Embedded - System On Chip (SoC)?

System On Chip (SoC) integrates multiple functions of a computer or electronic system onto a single chip. Unlike traditional multi-chip solutions, SoCs combine a central

Details	
Product Status	Active
Architecture	MCU, FPGA
Core Processor	Dual ARM® Cortex®-A9 MPCore™ with CoreSight™
Flash Size	-
RAM Size	256KB
Peripherals	DMA
Connectivity	CANbus, EBI/EMI, Ethernet, I²C, MMC/SD/SDIO, SPI, UART/USART, USB OTG
Speed	667MHz
Primary Attributes	Artix™-7 FPGA, 28K Logic Cells
Operating Temperature	-40°C ~ 100°C (TJ)
Package / Case	400-LFBGA, CSPBGA
Supplier Device Package	400-CSPBGA (17x17)
Purchase URL	https://www.e-xfl.com/product-detail/xilinx/xc7z010-1clg400i