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Understanding Embedded - Microprocessors

Embedded microprocessors are specialized computing chips designed to perform specific tasks within an embedded system. Unlike general-purpose microprocessors found in personal computers, embedded microprocessors are tailored for dedicated functions within larger systems, offering optimized performance, efficiency, and reliability. These microprocessors are integral to the operation of countless electronic devices, providing the computational power necessary for controlling processes, handling data, and managing communications.

Applications of Embedded - Microprocessors

Embedded microprocessors are utilized across a broad spectrum of applications, making them indispensable in

Details	
Product Status	Obsolete
Core Processor	ARM® Cortex®-A5
Number of Cores/Bus Width	1 Core, 32-Bit
Speed	400MHz
Co-Processors/DSP	ARM® Cortex®-M4, Multimedia; NEON™ MPE
RAM Controllers	DDR3, DRAM, LPDDR2
Graphics Acceleration	Yes
Display & Interface Controllers	DCU, GPU, LCD, VideoADC, VIU
Ethernet	10/100Mbps (2)
SATA	-
USB	USB 2.0 OTG + PHY (1)
Voltage - I/O	3.3V
Operating Temperature	-40°C ~ 85°C (TA)
Security Features	-
Package / Case	364-LFBGA
Supplier Device Package	364-LFBGA (17x17)
Purchase URL	https://www.e-xfl.com/product-detail/nxp-semiconductors/mvf50nn152cmk40

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