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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	Core2 Quad DT Q9400
Number of Cores/Bus Width	4 Core, 64-Bit
Speed	2.66GHz
Co-Processors/DSP	-
RAM Controllers	-
Graphics Acceleration	-
Display & Interface Controllers	-
Ethernet	-
SATA	-
USB	-
Voltage - I/O	-
Operating Temperature	-
Security Features	-
Package / Case	-
Supplier Device Package	-
Purchase URL	https://www.e-xfl.com/product-detail/advantech/96mp2qd-26fb-6m7t

Intel® Core™2 Quad Processor Q9400

Processor Specifications:	
sSpec Number: SLB6B	Package Type: LGA775
CPU Speed: 2.66 GHz	Manufacturing Technology: 45 nm
PCG: 05A	Core Stepping: R0
Bus Speed: 1333 MHz	CPUID String: 1067Ah
Bus/Core Ratio: 8	Thermal Design Power: 95W
L2 Cache Size: 6 MB	Thermal Specification: 71.4°C
L2 Cache Speed: 2.66 GHz	VID Voltage Range: 0.85V – 1.3625V
Product Documentation: http://www.intel.com/design/core2quad/documentation.htm	

Product Order Codes:	
Box Order Code: BX80580Q9400 BXC80580Q9400	OEM Order Code: AT80580PJ0676M

Supported Features:
<ul style="list-style-type: none">• Quad Core• Enhanced Intel Speedstep® Technology• Intel® EM64T ¹• Intel® Virtualization Technology• Enhanced Halt State (C1E)• Execute Disable Bit ²• Intel® Thermal Monitor 2

Notes:
These parts have Intel® Trusted Execution Technology (Intel® TXT) enabled.
These parts have PROCHOT# enabled.
These parts have THERMTRIP# enabled.
These parts have PECI enabled.
These parts have Extended Stop Grant State (C2E) enabled.
These parts have Deep Sleep State (C3E) enabled.
These parts have Deeper Sleep State (C4E) enabled.

Legal Disclaimers:
1 Intel® EM64T requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel EM64T. Processor will not operate (including 32-bit operation) without an Intel EM64T-enabled BIOS. Performance will vary depending on your hardware and software configurations. See http://www.intel.com/info/em64t for more information including details on which processors support Intel® EM64T or consult with your system vendor for more information.
2 Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.