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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	Pentium E5300
Number of Cores/Bus Width	2 Core, 64-Bit
Speed	2.6GHz
Co-Processors/DSP	-
RAM Controllers	-
Graphics Acceleration	-
Display & Interface Controllers	-
Ethernet	-
SATA	-
USB	-
Voltage - I/O	-
Operating Temperature	-
Security Features	-
Package / Case	775-LGA Module
Supplier Device Package	775-LGA
Purchase URL	<a href="https://www.e-xfl.com/product-detail/advantech/96mppd-2-6f8-2m7t1">https://www.e-xfl.com/product-detail/advantech/96mppd-2-6f8-2m7t1</a>

## Intel® Pentium® Processor for Desktop E5300

### Processor Specifications:

sSpec Number: SLGTL	Package Type: LGA775
CPU Speed: 2.6 GHz	Manufacturing Technology: 45 nm
PCG: 06	Core Stepping: R0
Bus Speed: 800 MHz	CPUID String: 1067Ah
Bus/Core Ratio: 13.0	Thermal Design Power: 65W
L2 Cache Size: 2 MB	Thermal Specification: 74.1°C
L2 Cache Speed: 2.6 GHz	VID Voltage Range: 0.85V – 1.3625V

### Product Order Codes:

**Box Order Code:** BX80571E5300  
BXC80571E5300

**OEM Order Code:** AT80571PG0642ML

### Supported Features:

- Dual Core
- Enhanced Intel Speedstep® Technology
- Intel® EM64T <sup>1</sup>
- Enhanced Halt State (C1E)
- Execute Disable Bit <sup>2</sup>
- Intel® Thermal Monitor 2

### Notes:

Notes: 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:

<sup>1</sup> 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.

<sup>2</sup> 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.