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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 E6500 |
| Number of Cores/Bus Width | 2 Core, 64-Bit |
| Speed | 2.93GHz |
| Co-Processors/DSP | - |
| RAM Controllers | - |
| Graphics Acceleration | No |
| 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 | https://www.e-xfl.com/product-detail/advantech/96mppd-2-93-2m7t |

# 96MPPD-2.93-2M7T

Intel® Pentium® Processor E6500 (2M Cache, up to 2.93 GHz)

**intel®**

**Features:**
- Intel Pentium E6500 Processor
- 2 Cores
- 2MB cache
- FSB 1066MHz
- LGA775 Socket Type
- 45NM
- 65W

RoHS COMPLIANT

## Specifications

| | | | |
|---|---|---|---|
| Advantech PN | 96MPPD-2.93-2M7T | Direct Media Interface | N/A |
| Intel Ordering Code | AT80571PH0772ML | Socket Type | LGA775 |
| Intel Launch Date | Q1 / 2008 | Max Memory Size | N/A |
| Code Name | Wolfdale | Tcase | 74.1C |
| SPEC Code | SLGUH | Memory Type | N/A |
| Processor Number | E6500 | Intel® Graphic Processor | NO |
| # of Cores | 2 | Graphic Base Frequency | NO |
| # of Threads | N/A | 64-bits Support | YES |
| Cache | 2MB | Package | Tray |
| Clock Speed | 2.93GHz | Embedded Channel | YES |
| FSB (Front Side Bus) | 1066MHz | RoHs | YES |
| Tech. in Nanometer | 45nm | Compatible Chipset | G31, G33, G35, P35, Q33, Q35, X38, P31, G45, P45, X48, G43, P43, Q43, Q45, G41 |
| Max Design Power | 65W | | |

## Compatible Motherboard

| Model Number | Description |
|---|---|
| **AIMB-566 Series** | Intel ® Core2 Quad/Core2 Duo LGA775 MicroATX with CRT/DVI, 2 COM, and LAN |
| **ASMB-567 Series** | Intel® Core™2 Quad LGA 775 MicroATX with Dual VGA/DVI, 4 COM, dual LAN |
| **AIMB-766 Series** | LGA775 Intel® Core™ 2 Quad/Core™ 2 Duo ATX with VGA, 4 COM, and Dual LAN |
| **ASMB-767 Series** | LGA775 Intel® Core™2 Quad ATX with Dual VGA/DVI, 4 COM, Dual LAN |
| **AIMB-769 Series** | LGA775 Intel® Core™2 Quad ATX with VGA, 2 COM, Single LAN |
| **PCA-6011 Series** | LGA775 Intel® Core™2 Quad SBC with VGA/Dual GbE LAN |
| **PCE-5124 Series** | LGA775 Intel® Core™ 2 Quad SHB with VGA/Dual GbE/6 COM Ports |

Learn more on PAPS Website

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All product specification and compatible chipset are subject to change without notice.

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