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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 | Active |
|---------------------------------|---|
| Core Processor | Xeon E3-1225 |
| Number of Cores/Bus Width | 4 Core, 64-Bit |
| Speed | 3.1GHz |
| Co-Processors/DSP | - |
| RAM Controllers | - |
| Graphics Acceleration | Yes |
| Display & Interface Controllers | - |
| Ethernet | - |
| SATA | - |
| USB | - |
| Voltage - I/O | - |
| Operating Temperature | - |
| Security Features | - |
| Package / Case | 1155-LGA Module |
| Supplier Device Package | 1155-FCLGA |
| Purchase URL | https://www.e-xfl.com/product-detail/advantech/96mpxe-3-1-6m11t |

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General information

| Туре |
|-----------------|
| Market segment |
| Family |
| Model number |
| CPU part number |
| Box part number |
| Frequency (MHz) |
| Package |
| Socket |

Architecture / Microarchitecture

| Microarchitecture | Sandy Bridge |
|-----------------------|--|
| Platform | Bromolow |
| Manufacturing process | 0.032 micron High-K metal gate process |
| Data width | 64 bit |
| Number of cores | 4 |
| Floating Point Unit | Integrated |
| Level 2 cache size | 4 x 256 KB |
| Level 3 cache size | 6 MB |
| Multiprocessing | Uniprocessor |
| Features | MMX instruction set SSE SSE2 SSE3 Supplemental SSE3 SSE4.1 SSE4.2 AES instructions Advanced Vector Extensions Extended Memory 64 technology (EM64T) Execute disable bit Virtualization technology Turbo Boost technology Trusted Execution technology |
| On-chip peripherals | Integrated DDR3 SDRAM Memory controllerHD graphics controller |

CPU / Microprocessor

CM8062307262304 (SR00G) BX80623E31225 (SR00G)

Socket 1155 (Socket H2)

1155-land Flip-Chip Land Grid Array

Intel Xeon E3-1200

Server

E3-1225

3100

Electrical/Thermal parameters Thermal Design Power (W)

95

Notes on Intel CM8062307262304

Memory controller supports DDR3-800, DDR3-1066 and DDR3-1333 memory •