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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                  | i5-2400   |
| 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-LGA (37.5x37.5)  |
| Purchase URL                    | <a href="https://www.e-xfl.com/product-detail/advantech/96mpi5-3-1-6m11t">https://www.e-xfl.com/product-detail/advantech/96mpi5-3-1-6m11t</a> |



## Intel® Core™ i5-2400 Processor (6M Cache, 3.10 GHz)

### SPECIFICATIONS

All

Essentials

Memory Specifications

Graphics Specifications

Expansion Options

Package Specifications

Advanced Technologies

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### SPECIFICATIONS

#### Essentials

|                            |                 |
|----------------------------|-----------------|
| Status                     | Launched        |
| Launch Date                | Q1'11           |
| Processor Number           | i5-2400         |
| # of Cores                 | 4               |
| # of Threads               | 4               |
| Clock Speed                | 3.1 GHz         |
| Max Turbo Frequency        | 3.4 GHz         |
| Intel® Smart Cache         | 6 MB            |
| Bus/Core Ratio             | 31              |
| Instruction Set            | 64-bit          |
| Instruction Set Extensions | SSE4.1/4.2, AVX |
| Embedded Options Available | Yes             |
| Lithography                | 32 nm           |
| Max TDP                    | 95 W            |
| Tray 1ku Budgetary Price   | \$184.00        |

#### Memory Specifications

|   |                |
|---|----------------|
| Max Memory Size<br>(dependent on memory type) | 32 GB          |
| Memory Types                                  | DDR3-1066/1333 |
| # of Memory Channels                          | 2              |
| Max Memory Bandwidth                          | 21 GB/s        |
| ECC Memory Supported                          | No             |

#### Graphics Specifications

|  |         |
|--|---------|
| <a href="#">Integrated Graphics</a>            | Yes     |
| Intel® HD Graphics                             | Yes     |
| Intel® HD Graphics with Dynamic Frequency      | Yes     |
| Graphics Base Frequency                        | 850 MHz |
| Graphics Max Dynamic Frequency                 | 1.1 GHz |
| Intel® Quick Sync Video                        | Yes     |
| Intel® InTRU™ 3D Technology,                   | Yes     |
| Intel® Wireless Display                        | No      |
| Intel® Flexible Display Interface (Intel® FDI) | Yes     |
| Intel® Clear Video HD Technology               | Yes     |
| Dual Display Capable                           | Yes     |

#### Expansion Options

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#### PCN/MDDS INFORMATION

|  |   |
|--|---|
| PCI Express Revision                                     | 2.0   |
| <b>*Trademarks</b>                                       |   |
| # of PCI Express Ports                                   | 1   |
| <b>Package Specifications</b>                            |   |
| Max CPU Configuration                                    | 1   |
| T <sub>CASE</sub>  | 72.6°C  |
| Package Size   | 37.5mm x 37.5mm   |
| Sockets Supported  | LGA1155   |
| Halogen Free Options Available                           | Yes   |
| <b>Advanced Technologies</b>                             |   |
| Intel® Turbo Boost Technology                            | 2.0   |
| Intel® Hyper-Threading Technology                        |  No  |
| Intel® Virtualization Technology (VT-x)                  |  Yes |
| Intel® Virtualization Technology for Directed I/O (VT-d) |  Yes |
| Intel® Trusted Execution Technology                      |  Yes |
| AES New Instructions                                     |  Yes |
| Intel® 64  |  Yes |
| Idle States  | Yes   |
| Enhanced Intel SpeedStep® Technology                     |  Yes |
| Thermal Monitoring Technologies                          | Yes   |
| Intel® Fast Memory Access                                | Yes   |
| Intel® Flex Memory Access                                | Yes   |
| Execute Disable Bit                                      | Yes   |

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## Intel® Core™ i5-2400 Processor (6M Cache, 3.10 GHz)

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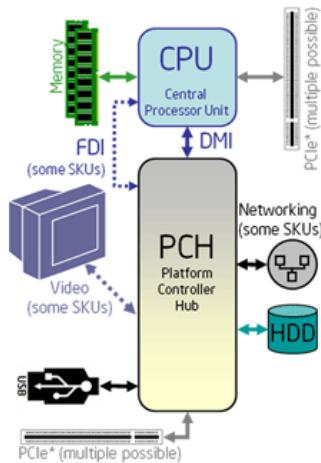
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#### Ordering and Spec Information

#### Boxed Intel® Core™ i5-2400 Processor (6M Cache, 3.10 GHz) FC-LGA10, for China

| Socket  | Step | Step TDP | Ordering Code  | Spec Code | Halogen Free | VT-x |
|---------|------|----------|----------------|-----------|--------------|------|
| LGA1155 | D2   | 95 Watts | BXC80623I52400 | SR00Q     | Yes          | Yes  |

#### Boxed Intel® Core™ i5-2400 Processor (6M Cache, 3.10 GHz) FC-LGA10

| Socket  | Step | Step TDP | Ordering Code | Spec Code | Halogen Free | VT-x |
|---------|------|----------|---------------|-----------|--------------|------|
| LGA1155 | D2   | 95 Watts | BX80623I52400 | SR00Q     | Yes          | Yes  |

#### Intel® Core™ i5-2400 Processor (6M Cache, 3.10 GHz) FC-LGA10, Tray

| Socket  | Step | Step TDP | Ordering Code   | Spec Code | Halogen Free | VT-x |
|---------|------|----------|-----------------|-----------|--------------|------|
| LGA1155 | D2   | 95 Watts | CM8062300834106 | SR00Q     | Yes          | Yes  |

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