

EPC-2020/2030/2032

Programmable Embedded Controller with Intel® Atom™ D525 Platform

EPC-2020



EPC-2030/ EPC-2032



Features

- Fanless, Cable-less and Modularized Design
- Wide Range DC Power Input (10 ~ 30V)
- Rich Onboard I/O and Expansion Slots (Max. 2 x PCIe x1 Slots, Max. 2 x PCI Slots)
- RS-485 Auto-flow Control Supported
- Easy Installation/Maintenance
- Intel® SSD Compatible

System

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|-----------------------|---|
| CPU | Soldered onboard Intel® Atom™ D525 1.8GHz processor |
| Memory | Soldered onboard 2GB DDR3 SDRAM |
| Chipset | Intel® ICH8M |
| Graphics | Integrated with Intel® GMA 3150 |
| LAN Chipset | 2 x Intel® 82574L GbE controllers |
| Watchdog Timer | 1~255 levels reset |

I/O

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|--------------------|--|
| Serial Port | 4 x DB-9 male connectors (COM1~2: RS-232, COM3~4: RS-232/422/485 selectable) |
| USB Port | 4 x USB type A connectors for USB 2.0 ports |
| LAN | 2 x RJ-45 GbE ports |
| Video Port | 1 x DB-15 female connector for Analog RGB 1 x DB-26 male connector for dual channels 24-bit LVDS port |
| Audio | Mic-in/Line-out with Realtek ALC886 HD Audio CODEC |
| KB/MS | PS/2 interface Keyboard/ Mouse via Y-cable |

Expansion Bus

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| 1 x PCIe x1 slot, 1 x PCI slot for EPC-2020 |
| 2 x PCIe x1 slots, 1 x PCI slot for EPC-2030 |
| 1 x PCIe x1 slot, 2 x PCI slots for EPC-2032 |

Environmental

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|---------------------------|--|
| Operating Temp. | -20 ~ 60°C (-4 ~ 140°F), ambient with air flow |
| Storage Temp. | -40 ~ 85°C (-40 ~ 185°F) |
| Operating Humidity | 10 ~ 95% @ 60°C (non-condensing) |
| Vibration | 5~500Hz, 3Grms Random (w/ SSD) |
| Shock | Operating 40G, 11ms Non-operating 60G (with CFast/ SSD) |

Qualification

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|----------------------|-----------------|
| Certification | CE, FCC Class A |
|----------------------|-----------------|

Power Requirement

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| Power Input | DC 10 ~ 30V input (w/ 3-pin terminal block) |
| Power Consumption | 60W (Max.) |

Storage

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| Type | 1 x 2.5" drive bay for SATA interface HDD/SSD, supporting 300MB/s HDD transfer rate 1 x CFast socket |
|-------------|---|

Mechanical

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|-------------------------------|--|
| Construction | Aluminum alloy |
| Mounting | Wall-mount/Din rail mounting |
| Weight | Max. 2.92 kg (6.42 lb) |
| Dimensions (W x D x H) | EPC-2020: 164 x 192 x 120 mm (6.46" x 7.56" x 4.72") EPC-2030/ EPC-2032: 164 x 192 x 140 mm (6.46" x 7.56" x 5.51") |

OS Support

Windows XP Embedded / Windows XP Professional / Windows Embedded 7 Professional / Windows Embedded 7 Standard

Ordering Information

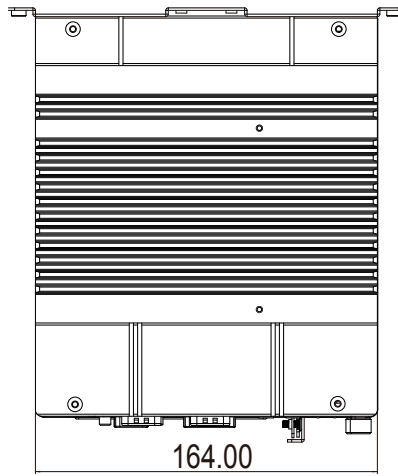
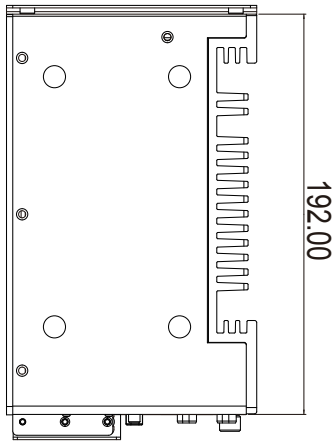
| | |
|-----------------|--|
| EPC-2020 | EPC-2000 with 1 x PCIe x1 slot & 1 x PCI slot |
| EPC-2030 | EPC-2000 with 2 x PCIe x1 slots & 1 x PCI slot |
| EPC-2032 | EPC-2000 with 1 x PCIe x1 slot & 2 x PCI slots |



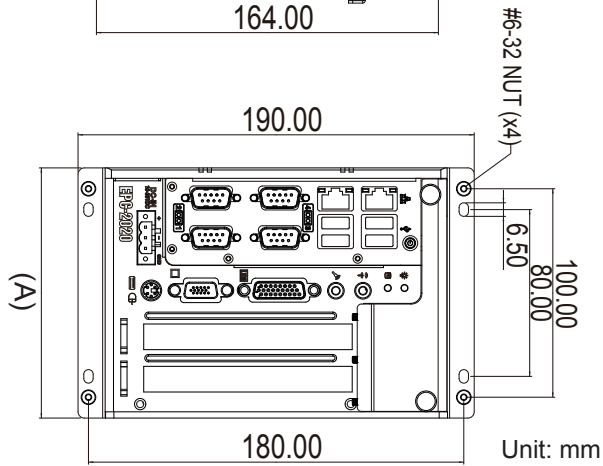
» Fanless, Cable-less Design

Dimensions

EPC-2000 Series



| Dimensions | |
|------------|-------|
| Model | (A) |
| EPC-2020 | 120mm |
| EPC-2030 | 140mm |
| EPC-2032 | 140mm |



Unit: mm

Fast, Tool-free Installation CFast & HDD



Thumbscrew Design for Easy, Tool-free Installation



Easily Remove Top Cover by Hand



2.5" Hard Disk Drive



CFast Card Installation

EPC-2020/2030/2032


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
Standard Accessories

| | | |
|-----------------|------------------------------------|---|
| WMK-2000 | Wall-mount kit for EPC-2000 Series |  |
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Optional Accessories

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|------------------|--------------------------------|---|
| PAC-P065W | 19V/3.4A 65W AC/DC adapter kit |  |
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|-----------------|---|---|
| DRK-2000 | Din rail mounting kit for EPC-2000 Series |  |
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|---------------|--|---|
| TML-96 | 96-pin Din Rail Mountable Screw Terminal |  |
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|---------------|--|---|
| TML-37 | 37-pin Din Rail Mountable Screw Terminal |  |
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| CBL-96-1.5P | 1.5M length Shielding Cable with 96-pin Half-pitch Connector at Each End |  |
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| | | |
|--------------------|--|---|
| CBL-37-1.5P | 1.5M length Shielding Cable with 37-pin D-type (M) Connector at Each End |  |
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Optional Configuration (CTOS* Kit)

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| SSD-25040 | Intel® 2.5" 40GB SATAII SSD kit |  |
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|-------------------------|---|---|
| DIO-16/16L(PCI)H | 16-CH Input / 16-CH Output Isolated Digital I/O Board for PCI |  |
|-------------------------|---|---|

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|-------------------------|---|---|
| DIO-32/32L(PCI)H | 32-CH Input / 32-CH Output Isolated Digital I/O Board for PCI |  |
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|-----------------------|--|---|
| COMM-2PD(PCI)H | 2-CH Isolated RS-422A/485 Communication I/O Board with Isolation for PCI |  |
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*CTOS means Configure-to-Order Service.