

EPC-2000 Series

Embedded Programmable Controller with Intel® Atom™ D525 Platform

EPC-2020

EPC-2030



Features

- **Fanless, Cableless and Modularized Design**
- Wide Range DC Power Input (10 ~ 30V)
- Rich Onboard I/O and Expansion Slots (Max. 2 x PCIe1 Slots, 1 x PCI Slot)
- RS-485 Auto-flow Control Supported
- Easy Installation/Maintenance
- Intel® 2.5" SATAII SSD Compatible

System

CPU	Soldered onboard Intel® Atom™ D525 processor
Memory	Soldered onboard DDR3 2GB SDRAM
Chipset	Intel® ICH8M
Graphics	Integrated with Intel® GMA 3150
LAN Chipset	2 x Intel® 82574IT PCIe controllers
Watchdog Timer	1~255 level reset

Peripherals and Devices

Serial Port	4 x COM ports with DB-9 male connectors (COM1, COM2: RS-232, COM3, COM4: RS-232/422/485 selectable)
USB Port	4 x USB type A connectors for USB 2.0 ports
LAN	2 x RJ-45 Gigabit Ethernet ports
Video Port	1 x DB-15 female connector for Analog RGB 1 x DB-26 male connector for dual channel 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	Max. 2 x PCIe1 slots 1 x PCI slot

Environmental

Operating Temp.	-20 ~ 60°C (-4 ~ 140°F), ambient with air flow
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Relative Humidity	10 ~ 95% @ 40°C (non-condensing)
Vibration	3G _{RMS} /5 to 500Hz/random operation, with SSD
Shock & Crash	Operating 20G (11ms), Non-operating 40G with HDD Operating 40G (11ms), Non-operating 60G with CFast/SSD Crash 80G (11ms)

Qualification

Certification	CE, FCC
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Power Requirement

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

Storage

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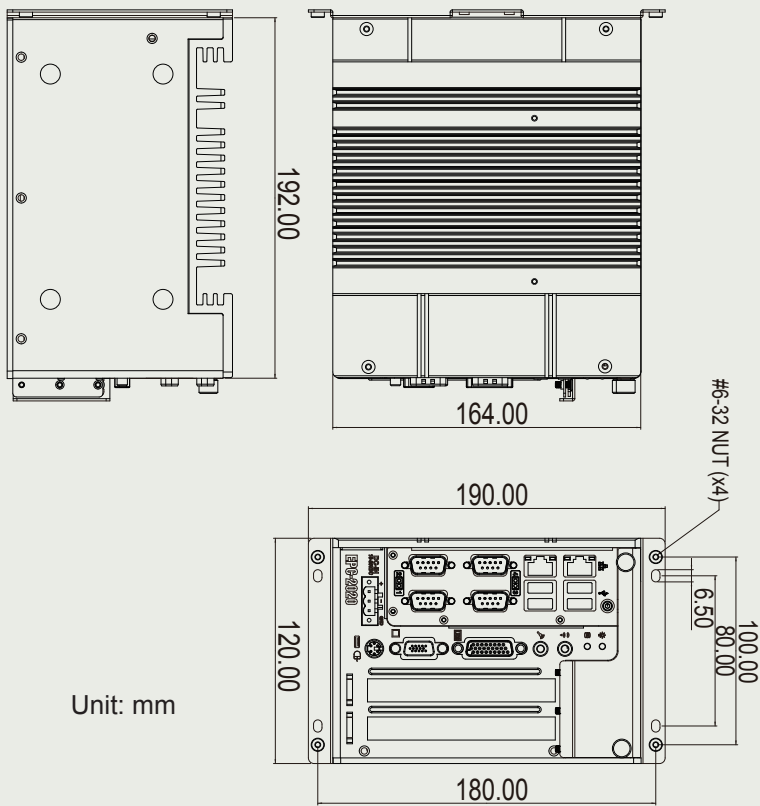
Mechanical

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: 164 x 192 x 140 mm (6.46" x 7.56" x 5.51")

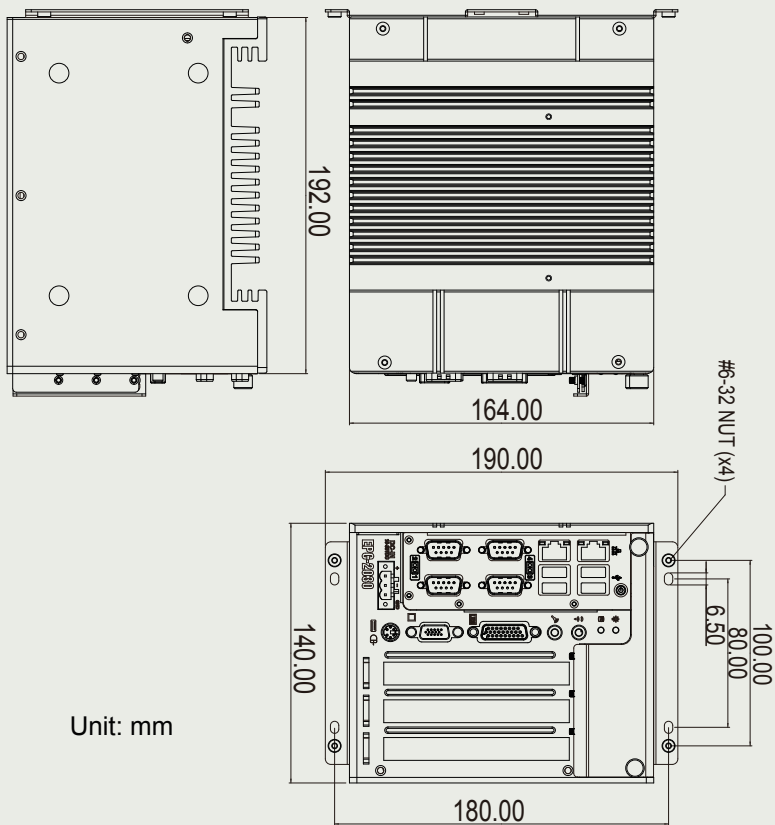
Ordering Information

EPC-2020	EPC-2000 with 1 x PCIe slot & 1 x PCI slot
EPC-2030	EPC-2000 with 2 x PCIe slot & 1 x PCI slot
PAC-P065W	65W AC/DC adapter kit
SSD-25080	Intel® 2.5" 80GB SATAII SSD kit
WMK-2000	Wall-mount kit for EPC-2000 series
DRK-2000	Din-rail mounting kit for EPC-2000 series
DIO-16/16L(PCI)H	16-CH Input / 16-CH Output isolated digital I/O
DIO-32/32L(PCI)H	32-CH Input / 32-CH Output isolated digital I/O
COMM-2PD(PCI)H	2-CH isolated RS-422A/485 communication
TML-96	96-pin Din rail mountable screw terminal
TML-37	37-pin DIN-rail mountable screw terminal
CBL-96-1.5P	1.5M length shielding cable with 96-pin half-pitch connector at each end
CBL-37-1.5P	1.5M length shielding cable with 37-pin D-type (M) connector at each end

Dimensions EPC-2020



EPC-2030



Optional Accessories

PAC-P065W
65W AC/DC adapter kit



Power Input	100 ~ 240 VAC
Power Output	19VDC, 3.4A, 65W

SSD-25080
Intel® 2.5" 80GB SATAII SSD kit



Brand/Type	Intel / 2.5 inch
Interface	SATAII
Capacity	80GB
Dimensions (W x D x H)	100.45 x 69.85 x 9.5 mm (3.95" x 2.75" x 0.37")

WMK-2000
Wall-mount kit for EPC-2000 Series



Material	SPCC+Ni
Dimensions (W x D x H)	120 x 4.2 x 190 mm (4.72" x 0.17" x 7.48")

DRK-2000
Din rail mounting kit for EPC-2000 Series



Material	SPCC+Ni, Al6063
Display Compatibility	Din Rail 35 mm

Optional I/O Expansion

DIO-16/16L(PCI)H
16-CH Input / 16-CH Output Isolated
Digital I/O Board for PCI



Digital Input	16 ch (opto-isolation)
Digital Output	16 ch (opto-isolation)
Interface	PCI

DIO-32/32L(PCI)H
32-CH Input / 32-CH Output Isolated
Digital I/O Board for PCI



Digital Input	32 ch (opto-isolation)
Digital Output	32 ch (opto-isolation)
Interface	PCI

COMM-2PD(PCI)H
2-CH Isolated RS-422A/485 Communication
I/O Board with Isolation for PCI



Serial Port	2 x isolated RS-422A/485 serial ports
Interface	PCI

TML-96
96-pin Din Rail Mountable Screw Terminal



TML-37
37-pin Din Rail Mountable Screw Terminal



CBL-96-1.5P
1.5M length Shielding Cable with 96-pin
Half-pitch Connector at Each End



CBL-37-1.5P
1.5M length Shielding Cable with 37-pin D-
type (M) Connector at Each End



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