EPC-2000 Series

Embedded Programmable Controller with Intel® Atom™ D525 Platform

EPC-2020



EPC-2030



Features

- **Fanless, Cable-less and Modularized Design**
- Wide Range DC Power Input (10 ~ 30V)
- Rich Onboard I/O and Expansion Slots (Max. 2 x PCIex1 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® 82574L 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 PCIex1 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

Power Requirement

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

Storage

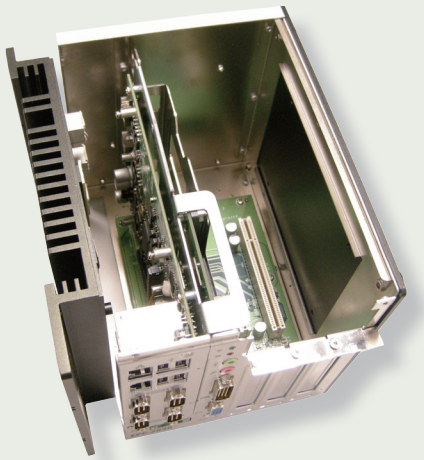
Type	1 x 2.5" drive bay for SATA interface HDD/SSD supporting 300MB/s HDD transfer rate
	1 x CFast socket

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

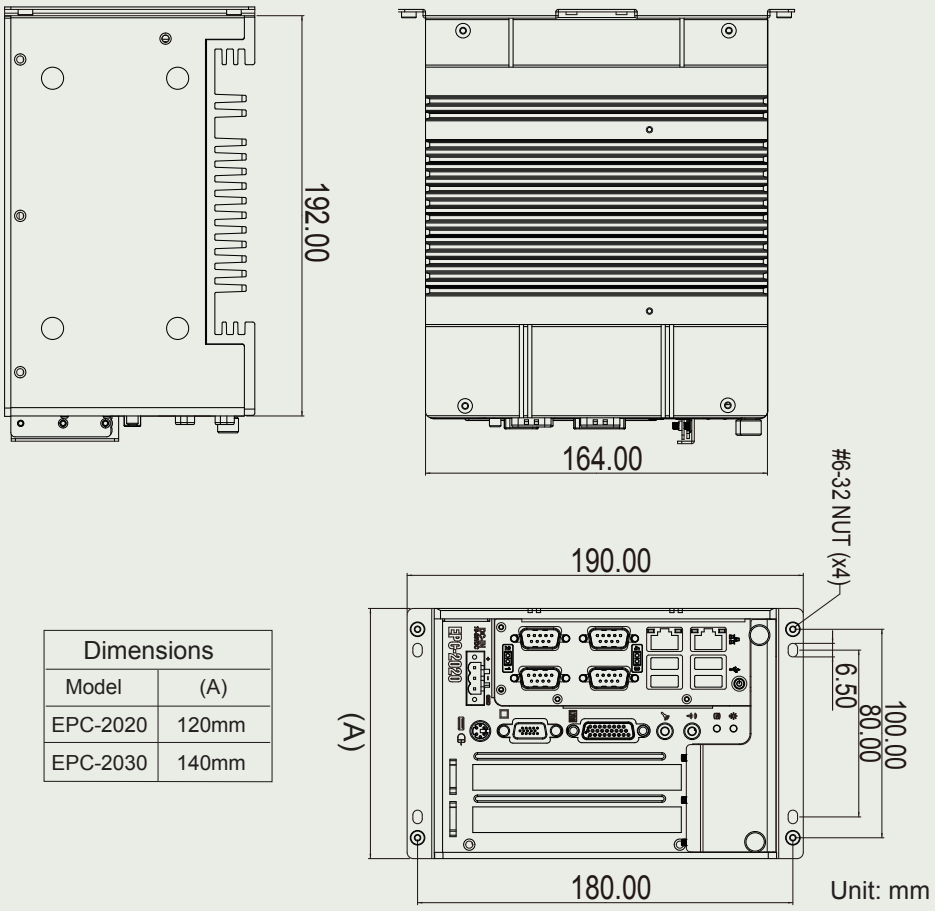


» **Fanless, Cable-less Design**

All specifications are subject to change without notice.

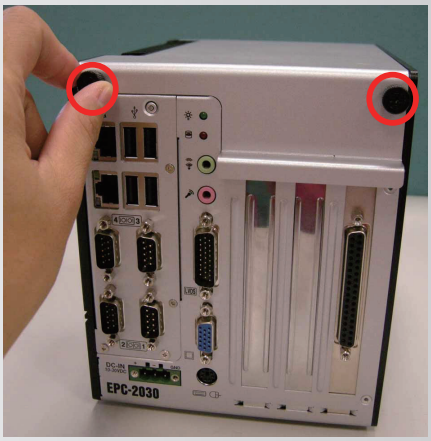
Dimensions

EPC-2000 Series



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

» 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

All specifications are subject to change without notice.

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			