

EPC-P30X6

2U system with 8th/9th Gen Intel® Core™ i CPU (LGA 1151)

NEW



Features

- Supports Intel® 8th/ 9th Gen Core™ i processor (LGA1151) with Intel C246/ H310 chipset
- Up to 4 x Extension Card by Riser Card
- 3 x GigaLAN and 8 x USB3.0
- 2 x RS-232/422/485 and 4 x RS232 serial ports, 16 bit GPIO
- 4 x SATA, 1 x M.2 E key, 1 x M.2 B/M key, 2 x F/S mSATA
- VGA+HDMI or 2 x HDMI output
- 12~24V DC input power range
- Support Advantech I Door module



Specifications

| Model Name | EPC-P3000 | | | | | |
|--|---|--|--|--|-------------------|------|
| Order Number | EPC-P3066EA-00Y0E | EPC-P3066SA-00Y0E | EPC-P3066SA-00Y0E | EPC-P3086CA-00Y0E | EPC-P3086SA-00Y0E | |
| Cooling | SYS Fan / CPU Fan 2 / 1 | | | | | |
| System Spec | CPU | XEON E-2176G | i5-8500 | N/A | G4900 | N/A |
| | Core Number | 6 | 6 | | 2 | |
| | Max Speed | 3.7 GHz | 3.0 GHz | | 3.1 GHz | |
| | TDP | 80W | 65W | | 54W | |
| | Chipset | C246 | C246 | C246 | H310 | H310 |
| Memory | Two 260-pin SO-DIMM up to 64GB DDR4 2400/2666 MHz SDRAM | | | | | |
| Ethernet | Controller | LAN1: Intel I219LM (GbE) LAN2: Intel I210AT (GbE) LAN3: Realtek RTL8111H (GbE) | | LAN1: Intel I219LM (GbE) LAN2: Intel I210AT (GbE) | | |
| Audio | Chipset | Realtek ALC888S, High Definition Audio(HD) | | | | |
| Storage | 2.5" HDD/SSD | 2 x 2.5" HDD/SSD (Default) | | | | |
| | mSATA | 2 | 2 | 1 | 1 | |
| | M.2 B key | 1 | 1 | - | - | |
| Storage in extension card Area (share w/ PCIe & PCI cards) | 2.5" HDD/SSD (optional) | 2 x 2.5" HDD | | | | |
| | 3.5" HDD (optional) | 2 x 3.5" HDD | | | | |
| Front IO | VGA | 1 | 1 | 1 | 1 | |
| | HDMI | 1 | 1 | 1 | 1 | |
| | Ethernet | 3 | 3 | 2 | 2 | |
| | USB 3.1/3.0/2.0 | 2/4/0 | 2/4/0 | 2/4/0 | 0/4/2 | |
| | Serial Port | 6 ports; 2 x RS232/422/485 (BIOS select) + 4 x RS232 | | | | |
| | Power SW / LED | 1 | | | | |
| | Remote Control | 6-pin connector (2.0 Pitch) by HSG A2004H030 (Power SW+/SW- + LED+/- + RST +/-) | | | | |
| | GPIO (16 bits) | 2 x D-sub 9-pin | | | | |
| | i Door window | 1 | 1 | 1 | 1 | |
| | Expansion slot | Up to 4 x extended Card by Riser Card | | | | |
| | LED indicator | 5 (COM1 TX/RX, COM2 TX/RX, HDD LED) | | | | |
| | Power input | 12~24V with terminal block 4-Pin | | | | |
| Internal I/O | HDMI (max 1080P) | 2 (pin header, with external IO up to 3 Displays) | 2 (pin header, with external IO up to 3 Displays) | 2 (pin header, with external IO up to 3 Displays) | - | |
| | Audio | MIC in, Line out (pin header) | | | | |
| | USB 2.0 | 4 (pin header) | 4 (pin header) | 4 (pin header) | 2 (pin header) | |
| | SATA III | 3 | 3 | 3 | 2 | |
| Internal expansion Slot | M.2 B Key | 1 (support 2280 & 3042), support SIM card holder, Optional | 1 (support 2280 & 3042), support SIM card holder, Optional | 1 (support 2280 & 3042), support SIM card holder, Optional | - | |
| | M.2 E key | 1 (support 2230) | 1 (support 2230) | 1 (support 2230) | - | |
| | Mini-PCIe | 2 Full size (with USB2.0/PCIe/mSATA) for EPC-P3066 | | | | |
| Environment | Operating Temperature | 0 ~ 40 °C | | | | |
| | Non-operating Temperature | -20 ~ 60 °C (-4 ~ 140 °F) | | | | |
| | Humidity | 10 ~ 95% @ 40 °C, non-condensing | | | | |
| | Vibration (5 ~ 500 Hz) | 0.5 Grms (2 x 2.5" HDD; PCIe Card inserted) | | | | |
| | Shock | 10G (with 11ms duration, half sine wave) | | | | |
| Physical Characteristics | Certification | CE/FCC/CB/UL/CCC | CE/FCC/CB/UL/CCC | CE/FCC/CB/UL/CCC | CE/FCC/CB/UL/CCC | |
| | Dimensions (W x D x H) | 335 x 260 x 88 mm | | | | |
| Weight | 6.54 kg | | | | | |

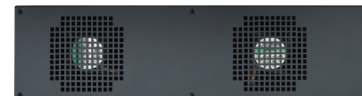
* Other CPU will be project base (TPN)

* Extra HDD/SSD will occupied PCIe or PCI slot space

Front Side

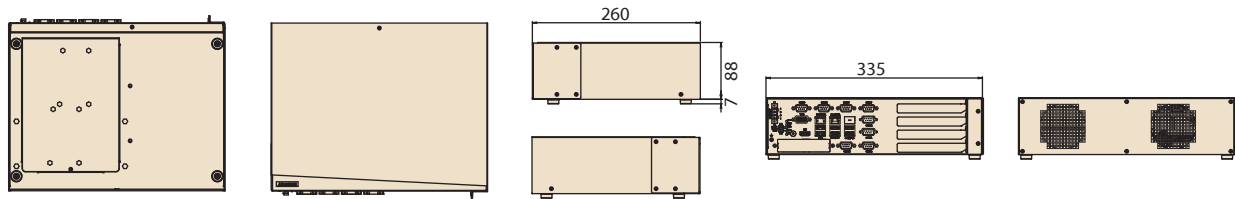


Rear Side



Dimensions

Unit: mm



Ordering Information

| PN | CPU | Chipset | VGA/ HDMI | COM | Front IO | | Internal IO ¹ | | | | | | | | | | Power input | | Riser Card | | |
|-------------------|---------|---------|-----------|-----|------------------------|---------|--------------------------|----------------|----------|-----|-------|-------------|-----------|----------------------|-----|------------------------------|------------------------------|--------------------|-------------------|-----|--|
| | | | | | USB3.1/ USB3.0/ USB2.0 | GbE LAN | GPIO | HDMI | SATA III | USB | Audio | M.2 B/M-key | M.2 E-key | mini-PCIe | TPM | Power input | PN | Slot | SATA/SATA PWR | | |
| EPC-P3066EA-00Y0E | E-2176G | C246 | 1/1 | 6 | 2/4/0 | 3 | 16-bit | 2 ² | 3 | 4 | 2 | 1 | 1 | 2 (F/S) | (1) | DC 12-24V | EPC-RF484-13A1E | 1 PCIe8 + 3 PCIe4 | 1/1 | | |
| | | | | | | | | | | | | | | | | | EPC-RF48P-22A1E | 2 PCIe8 + 2 PCI | 1/1 | | |
| | | | | | | | | | | | | | | | | | EPC-RF2F4-11A1E | 1 PCIe16 + 1 PCIe4 | 1/1 | | |
| | | | | | | | | | | | | | | | | | EPC-RF4F1-13A1E ⁵ | 1 PCIe16 + 3 PCIe1 | 1/1 | | |
| EPC-P3066SA-00Y0E | I5-8500 | C246 | 1/1 | 6 | 2/4/0 | 3 | 16-bit | 2 ² | 3 | 4 | 2 | 1 | 1 | 2 (F/S) | (1) | | | EPC-RF484-13A1E | 1 PCIe8 + 3 PCIe4 | 1/1 | |
| | | | | | | | | | | | | | | | | | EPC-RF48P-22A1E | 2 PCIe8 + 2 PCI | 1/1 | | |
| | | | | | | | | | | | | | | | | | EPC-RF2F4-11A1E | 1 PCIe16 + 1 PCIe4 | 1/1 | | |
| | | | | | | | | | | | | | | | | | EPC-RF4F1-13A1E ⁵ | 1 PCIe16 + 3 PCIe1 | 1/1 | | |
| EPC-P3086SA-00Y0E | N/A | C246 | 1/1 | 6 | 2/4/0 | 3 | 16-bit | 2 ² | 3 | 4 | 2 | 1 | 1 | 2 (F/S) | (1) | | | EPC-RF484-13A1E | 1 PCIe8 + 3 PCIe4 | 1/1 | |
| | | | | | | | | | | | | | | | | | EPC-RF48P-22A1E | 2 PCIe8 + 2 PCI | 1/1 | | |
| EPC-P3086CA-00Y0E | G4900 | H310 | 1/1 | 6 | 2000/4/2 | 2 | 16-bit | - | 2 | 2 | 2 | 0 | 0 | 2 (F/S) ⁴ | (1) | | EPC-RF2F4-11A1E | 1 PCIe16 + 1 PCIe4 | 1/1 | | |
| | | | | | | | | | | | | | | | | EPC-RF4F1-13A1E ⁵ | 1 PCIe16 + 3 PCIe1 | 1/1 | | | |
| EPC-P3086SA-00Y0E | N/A | H310 | 1/1 | 6 | 2000/4/2 | 2 | 16-bit | - | 2 | 2 | 2 | 0 | 0 | 2 (F/S) ⁴ | (1) | | EPC-RF48P-22A1E | 1 PCIe16 + 2 PCI | 1/1 | | |
| | | | | | | | | | | | | | | | | EPC-RF2F4-11A1E | 1 PCIe16 + 1 PCIe4 | 1/1 | | | |
| | | | | | | | | | | | | | | | | EPC-RF4F1-13A1E ⁵ | 1 PCIe16 + 3 PCIe1 | 1/1 | | | |
| | | | | | | | | | | | | | | | | EPC-RF48P-22A1E | 1 PCIe16 + 2 PCI | 1/1 | | | |
| | | | | | | | | | | | | | | | | EPC-RF2F4-11A1E | 1 PCIe16 + 1 PCIe4 | 1/1 | | | |
| | | | | | | | | | | | | | | | | EPC-RF4F1-13A1E ⁵ | 1 PCIe16 + 3 PCIe1 | 1/1 | | | |

- All internal IO need Optional Cable or bracket.
- M.2 B/M-key: support SIM card holder.
- Internal HDMI 1 and VGA port are either one
- mini-PCIe: for H310 sku, one with USB2.0/mSATA, other with USB2.0/PCIe.
- EPC-RF4F1-13A1E need custom BIOS. Supported by projects (TPN)

Power Adapter Options

| Part Number | Watts | Input | Output | Safety |
|-------------------|-------|----------------|------------|-------------------------------|
| 96PSA-A230W24P4-3 | 230W | AC 100 – 240 V | 24V, 9.58A | CE/FCC/CCC/UL/CB/TUV/KCC/BSMI |
| 96PSA-A150W19P4-3 | 150 W | AC 100 – 240 V | 19V, 7.89A | CE/FCC/CCC/UL/CB/TUV/KCC/BSMI |

- * 150W power adapter supports EPC-P30X6 Without riser card options.
 ** Please consider the overall power consumption and carefully select the power supply that is right for you.

Packing List

| Item | Quantity |
|-----------------------------|----------|
| SATA Data cable | 2 |
| SATA power cable | 1 |
| Terminal block conn. (male) | 1 |
| Manual | 1 |
| HDD screws | 8 |

Optional Accessories

| Items | Part Number | Description |
|---------|----------------|--------------------------------------|
| Cable | 1700000596-11 | Power cable 3-pin 183cm, China type |
| | 1702031801 | Power cable 3-pin 183cm, UK type |
| | 1702002600 | Power cable 3-pin 183cm, USA type |
| | 1702002605 | Power cable 3-pin 183cm, Europe type |
| | 1700000237-01 | Power cable 3-pin 183cm, Japan type |
| iDoor* | EPC-DORP-HDM00 | Dual HDMI cables and BKT |
| | EPC-DORP-USB00 | Dual USB2.0 cable and BKT |
| Bracket | AIMB-OBK-WM02E | Wall Mount Bracket |
| | EPC-BRKP-RM010 | Rack Mount Bracket |
| | EPC-BRKP-H3510 | Dual 3.5" HDD mounting kit |
| OS | EPC-BRKP-H2510 | Dual 2.5" HDD mounting kit |
| | 20706WX9ES0041 | img W10 19EL 64b 1809 ENU |
| | 20706WX9HS0028 | img W10 19HL 64b 1809 ENU |
| | 20706WX9VS0031 | img W10 19VL 64b 1809 ENU |

* iDoor module and secondary 2.5" HDD are either one

Optional Accessories (extended Card)

| Function | Part Number | PCIe | Description |
|---------------|--------------------|------|---|
| LAN Card | 96NIC-1G-PE-IN | x1 | INTEL NIC 10/100/1000M PCIe1 DESKTOP(G) RJ45 |
| Dual LAN | 96NIC-1G2P-PE-IN3 | x4 | INTEL NIC 10/100/1000M PCIe4 2PORT SER RJ45 |
| RAID | 96RC-SAS-4P-PE-AD4 | x8 | ADAPTEC 8405E SAS 4P 12GB/S 512M PCIeX8 |
| Frame Grabber | PCIE-1674E-AE | x4 | 4-Port PCIe GigE Vision Frame Grabber w/ PoE |
| Frame Grabber | PCIE-1154-AE | x4 | 4-port PCIe USB Vision Frame Grabber |
| Serial Ports | PCIE-1622B-BE | x1 | 8-port RS-232/422/485 PCIe w/ surge |
| CAN BUS | PCIE-1680-AE | x1 | 2-Port CAN-Bus PCIe card w/ Isolation |
| DIDO | PCIE-1751-AE | x1 | 48-ch digital I/O and 3-ch counter PCIe card |
| Motion Card | PCI-1245L-AE | PCI | 4-axis Stepping and Servo Motor Control Universal |