

**PPC-315S RPL**  
**PPC-315SW RPL**  
**PPC-317S RPL**  
**PPC-318SW RPL**  
**PPC-319S RPL**  
**PPC-321SW RPL**

**15"/ 15.6"/17"/18.5"/ 19"/21.5" Fanless Panel PC  
with Intel® 13th Gen Core™ i7/i5/i3 Processor**



## Features

- True-flat touchscreen with Industrial-grade LCD panel
- High-performance, fanless 13th generation Intel® Core™ i processor
- Slim Compact, fanless design with aluminum alloy enclosure
- IP66-rated front panel
- Supports dual displays (1 x external DP)
- 1 x M.2 M Key 2280 (SATA or NVMe PCIe x 4) for storage, support SATA RAID 0,1
- 2 x 2500BASE-T Ethernet Supports Time-Sensitive Network(TSN) technology
- Supports VESA 75
- Support TPM2.0 hardware security (on board as default)
- Support iDoor
- Support PCI or PCIe



## Introduction

PPC-300S(W) RPL equipped Intel 13th Gen Core i7/i5/i3, providing high computing performance with a slim & compact design and robust aluminum alloy enclosure. It also leverages M.2 M key NVMe PCIe to accommodate extremely high data rate and low latency advantage. PPC-300S(W) RPL features 4 x USB, 2 x series ports and 1 x DP for flexible access and connection. The addition optional of PCIe/PCI slots or idoor for fieldbus or proprietary card extensions increases the compatibility of the system for various applications. The PPC-300S(W) RPL series is an excellent solution to enable quick data capture, processing and data digitalization in various industrial applications.

## Specifications

|        |                |                                                                                                                                                                                                      |
|--------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System | CPU            | i3-1315UE/i5-1335UE/i7-1365UE                                                                                                                                                                        |
|        | Core           | 6/10/10                                                                                                                                                                                              |
|        | Frequency      | 1.20 GHz upto 4.5GHz with Turbo/1.30 GHz upto 4.5GHz with Turbo/1.70 GHz upto 4.9GHz with Turbo                                                                                                      |
|        | Cache          | 10 MB/12 MB/12 MB                                                                                                                                                                                    |
|        | Memory         | 1 x SODIMM, DDR5 4800MHz, max. 32GB                                                                                                                                                                  |
|        | Storage        | 1 x 2.5" SATA bay<br>1 x M.2 M Key 2280 (SATA or NVMe PCIe x 4), support SATA RAID 0,1                                                                                                               |
|        | Network (LAN)  | 2 x 10/100/1000/2500 Mbps Ethernet (Intel I226 LM)                                                                                                                                                   |
|        | I/O            | 2 x RS-232/422/485<br>3 x USB3.2, 1 x USB2.0<br>2 x USB2.0 (optional)<br>1 x DP<br>1 x line out                                                                                                      |
|        | Expansion      | 1 x M.2 B key 2242 or 3042/3052 (PCIe x1, USB 3.0 & SIM slot), support idoor & 4G, and 5G by request<br>1 x M.2 E Key 2230 (PCIe & USB 2.0)<br>1 x iDoor (optional)<br>1 x PCI or PCIe x1 (optional) |
|        | Security       | 1 x TPM2.0 (on board as default)                                                                                                                                                                     |
|        | Watchdog Timer | 255 timer levels; setup by software                                                                                                                                                                  |
|        | Speaker        | 1 x 2W                                                                                                                                                                                               |

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| Model                    |                    | PPC-315S RPL                                               | PPC-315SW RPL                                 | PPC-317S RPL                                   | PPC-318SW RPL                                  | PPC-319S RPL                                    | PPC-321SW RPL                                  |
|--------------------------|--------------------|------------------------------------------------------------|-----------------------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------|------------------------------------------------|
| LCD                      | Display Type       | 15" TFT LCD (LED backlight)                                | 15.6" TFT LCD (LED backlight)                 | 17" TFT LCD (LED backlight)                    | 18.5" TFT LCD (LED backlight)                  | 19" TFT LCD (LED backlight)                     | 21.5" TFT LCD (LED backlight)                  |
|                          | Max. Resolution    | 1024 x 768                                                 | 1920 x 1080                                   | 1280 x 1024                                    | 1366 x 768                                     | 1280 x 1024                                     | 1920 x 1080                                    |
|                          | Viewing Angle      | 88 (left), 88 (right), 88 (up), 88 (down)                  | 89 (left), 89 (right), 89 (up), 89 (down)     | 89 (left), 89 (right), 89 (up), 89 (down)      | 85 (left), 85 (right), 80 (up), 80 (down)      | 89 (left), 89 (right), 89 (up), 89 (down)       | 89 (left), 89 (right), 89 (up), 89 (down)      |
|                          | Luminance (cd/m²)  | 300                                                        | 350                                           | 250                                            | 450                                            | 450                                             | 250                                            |
|                          | Contrast Ratio     | 2000                                                       | 800                                           | 1000                                           | 1000                                           | 1000                                            | 1000                                           |
|                          | Backlight Lifetime | 50,000hrs (min.)                                           |                                               |                                                |                                                |                                                 |                                                |
| Touchscreen              | Touchscreen type   | 5 wire resistive touch or Multi-touch projected capacitive |                                               |                                                |                                                |                                                 |                                                |
|                          | Light Transmission | 81%±3% (Res) or >86% (P-cap)                               |                                               |                                                |                                                |                                                 |                                                |
|                          | Controller         | USB interface                                              |                                               |                                                |                                                |                                                 |                                                |
| Physical Characteristics | Dimensions         | 359.6 x 283.6 x 50.4 mm (14.1 x 11.2 x 2.0 in)             | 395.7 x 245.1 x 50.4 mm (15.6 x 9.7 x 2.0 in) | 393.4 x 325.8 x 53.4 mm (15.5 x 12.8 x 2.1 in) | 464.5 x 285.5 x 53.4 mm (18.3 x 11.2 x 2.1 in) | 429.7 x 354.6 x 56.4 mm (16.9 x 13.96 x 2.2 in) | 529.6 x 321.3 x 53.4 mm (20.9 x 12.6 x 2.1 in) |
|                          | Weight             | 4.29 kg (9.46 lb)                                          | 4.3 kg (9.48 lb)                              | 5.17 kg (11.4 lb)                              | 5.3 kg (11.53 lb)                              | 6.3 kg (13.9 lb)                                | 6.35 kg (13.91 lb)                             |



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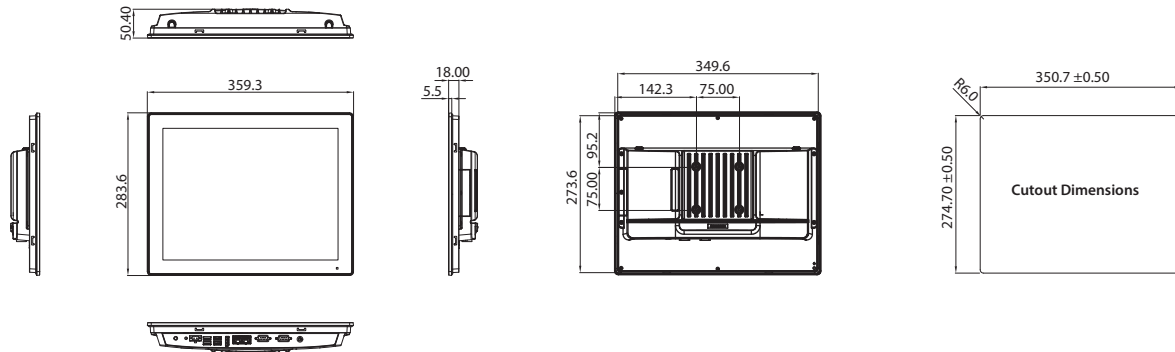
## Specifications (Cont.)

|                          |                        |                                                                                  |                              |                              |                              |                              |
|--------------------------|------------------------|----------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| <b>OS Support</b>        | OS Support             | Windows 10 LTSC, Windows 11, Linux                                               |                              |                              |                              |                              |
| <b>Power Consumption</b> | Input Voltage          | 24V <sub>DC</sub> ± 30%                                                          |                              |                              |                              |                              |
|                          | Power Consumption      | 75W                                                                              | 85W                          | 85W                          | 80W                          | 70W                          |
| <b>Environment</b>       | Operating Temperature  | -10 ~ 50 °C (32 ~ 122 °F)                                                        |                              |                              |                              |                              |
|                          | Storage Temperature    | -30 ~ 60 °C<br>(-22 ~ 140 °F)                                                    | -20 ~ 60 °C<br>(-4 ~ 140 °F) | -20 ~ 60 °C<br>(-4 ~ 140 °F) | -20 ~ 60 °C<br>(-4 ~ 140 °F) | -20 ~ 60 °C<br>(-4 ~ 140 °F) |
|                          | Relative Humidity      | 95% @ 40 °C (Non-Condensing)                                                     |                              |                              |                              |                              |
|                          | Shock                  | Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27        |                              |                              |                              |                              |
|                          | Vibration              | Operating Random Vibration Test 5-500Hz, 2Grms @with SSD, Follows IEC 60068-2-64 |                              |                              |                              |                              |
|                          | EMC                    | CE, FCC Class B, BSMI, EN60601-1-2, UKCA                                         |                              |                              |                              |                              |
|                          | Safety                 | CB, UL, CCC, UKCA                                                                |                              |                              |                              |                              |
|                          | Front Panel Protection | IP66 compliant                                                                   |                              |                              |                              |                              |

## Dimensions

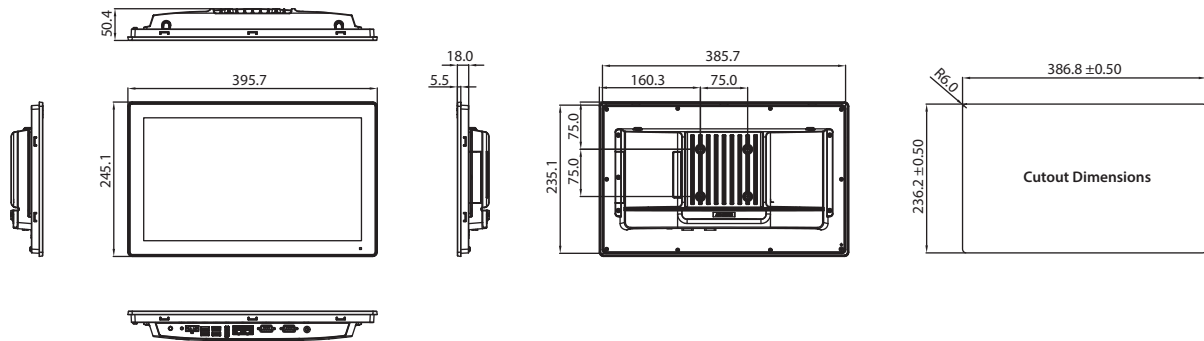
Unit: mm

### PPC-315S



**Panel Cutout Dimensions: 350.7 x 274.7 mm (13.81 x 10.82 in)**

### PPC-315SW

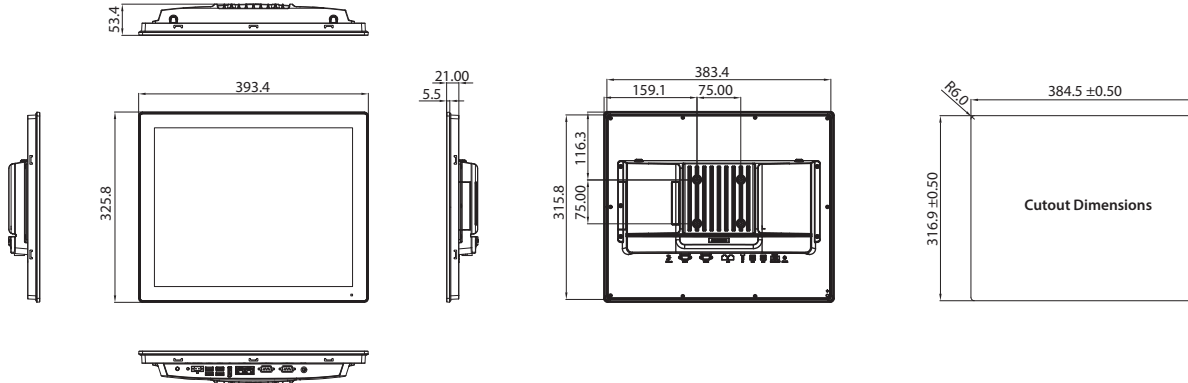


**Panel Cutout Dimensions: 386.8 x 236.2 mm (15.23 x 9.30 in)**

## Dimensions

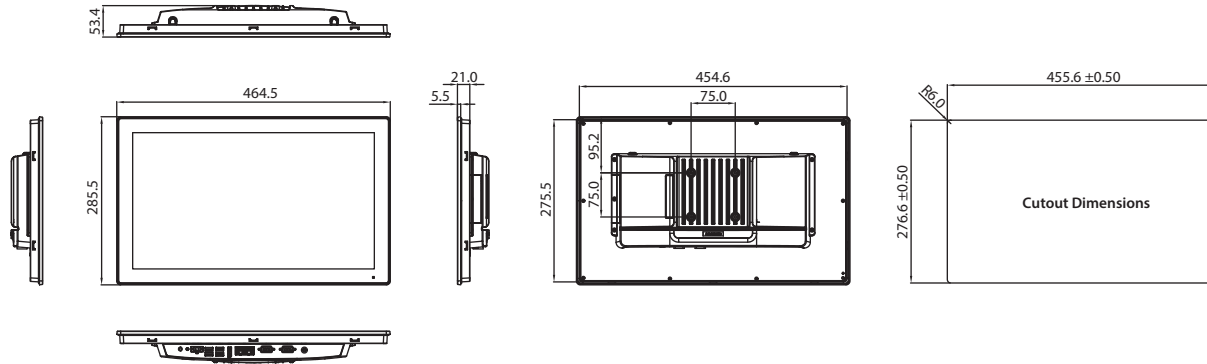
Unit: mm

### PPC-317S



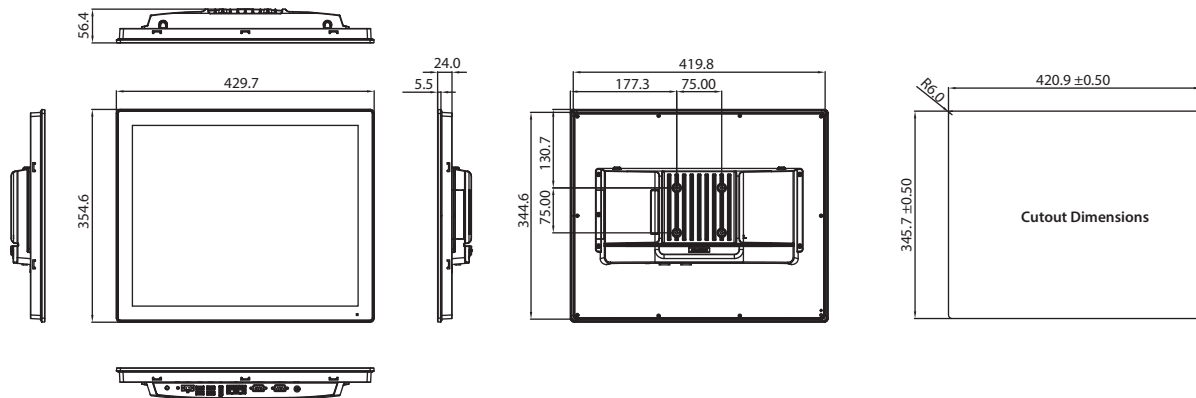
**Panel Cutout Dimensions: 384.5 x 316.9 mm (15.14 x 12.48 in)**

### PPC-318SW



**Panel Cutout Dimensions: 455.6 x 276.6 mm (17.94 x 10.89 in)**

### PPC-319S

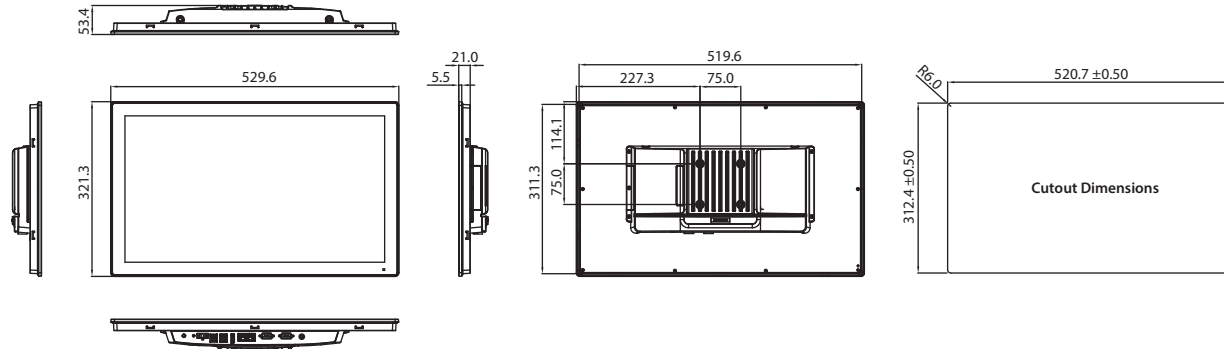


**Panel Cutout Dimensions: 420.9 x 345.7 mm (16.57 x 13.61 in)**

## Dimensions

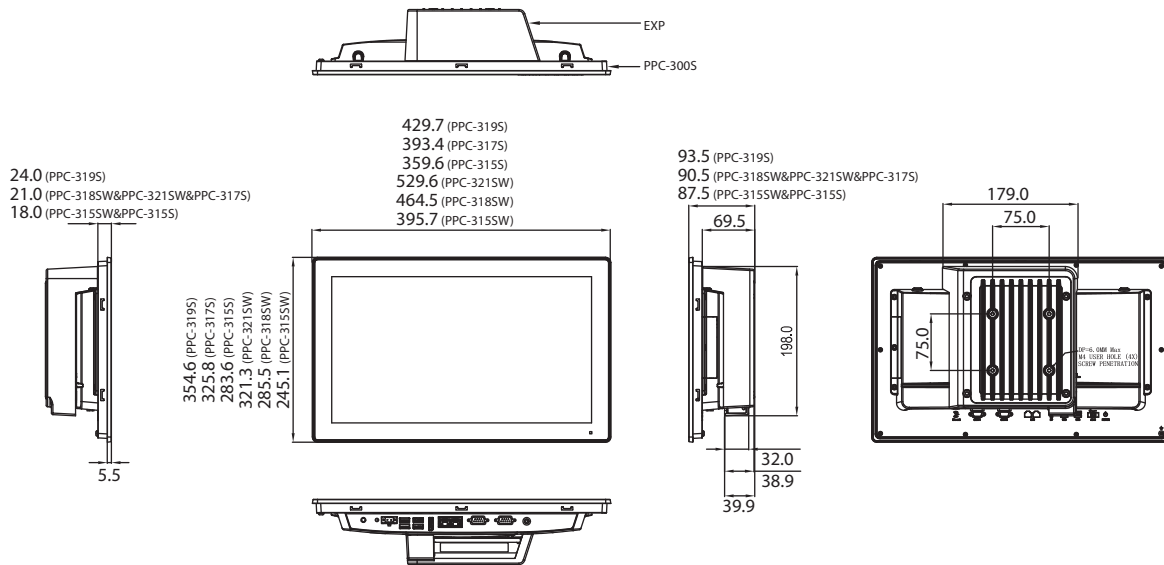
Unit: mm

### PC-321SW



**Panel Cutout Dimensions: 520.7 x 312.4 mm (20.5 x 12.3 in)**

**The dimension with the PCI or PCIe expansion box (98R1P300S00)**



## Ordering Information

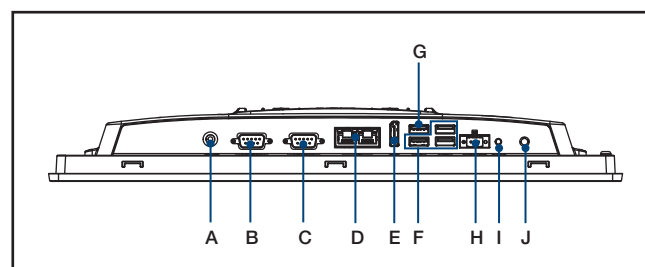
| Part Number        | Description                                                           |
|--------------------|-----------------------------------------------------------------------|
| PPC-315S-RDI3A     | 15" PPC w/Intel i3-1315UE, Res.                                       |
| PPC-315S-RDI5A     | 15" PPC w/Intel i5-1335UE, Res.                                       |
| PPC-315S-PDI5A     | 15" PPC w/Intel i5-1335UE, P-Cap                                      |
| PPC-315S-RDI7A     | 15" PPC w/Intel i7-1365UE, Res.                                       |
| PPC-317S-RDI3A     | 17" PPC w/Intel i3-1315UE, Res.                                       |
| PPC-317S-RDI5A     | 17" PPC w/Intel i5-1335UE, Res.                                       |
| PPC-317S-PDI5A     | 17" PPC w/Intel i5-1335UE, P-Cap                                      |
| PPC-317S-RDI7A     | 17" PPC w/Intel i7-1365UE, Res.                                       |
| PPC-319S-RDI3A     | 19" PPC w/Intel i3-1315UE, Res.                                       |
| PPC-319S-RDI5A     | 19" PPC w/Intel i5-1335UE, Res.                                       |
| PPC-319S-RDI7A     | 19" PPC w/Intel i7-1365UE, Res.                                       |
| PPC-319S-PDI5A     | 19" PPC w/Intel i5-1335UE, P-Cap                                      |
| PPC-315SW-PDI3A    | 15.6" PPC w/Intel i3-1315UE, P-Cap                                    |
| PPC-315SW-PDI5A    | 15.6" PPC w/Intel i5-1335UE, P-Cap                                    |
| PPC-315SW-PDI7A    | 15.6" PPC w/Intel i7-1365UE, P-Cap                                    |
| PPC-315SW-RDI5A    | 15.6" PPC w/Intel i5-1335UE, Res.                                     |
| PPC-318SW-PDI3A    | 18.5" PPC w/Intel i3-1315UE, P-Cap                                    |
| PPC-318SW-PDI5A    | 18.5" PPC w/Intel i5-1335UE, P-Cap                                    |
| PPC-318SW-PDI7A    | 18.5" PPC w/Intel i7-1365UE, P-Cap                                    |
| PPC-318SW-RDI5A    | 18.5" PPC w/Intel i5-1335UE, Res.                                     |
| PPC-321SW-PDI3A    | 21.5" PPC w/Intel i3-1315UE, P-Cap                                    |
| PPC-321SW-PDI5A    | 21.5" PPC w/Intel i5-1335UE, P-Cap                                    |
| PPC-321SW-PDI7A    | 21.5" PPC w/Intel i7-1365UE, P-Cap                                    |
| PPC-321SW-RDI5A    | 21.5" PPC w/Intel i5-1335UE, Res.                                     |
| 96PSA-A120W24T2-4  | Power adapter 100-240V 120W 24V                                       |
| 1702002600         | Power Cable UL/CSA (USA) 180D 125V10A 1.83M                           |
| 1702002605         | Power Cable 90D 220V EUROPEAN 250V/6A 1.8M                            |
| 1700000237         | Power Cord PSE 3P 12A 125V 183cm                                      |
| 96CB-POWER-B-1.8MA | Power code 3P CCC(China) 1.8M                                         |
| PPC-174T-WL-MTE    | Wall mount kit for PPC series                                         |
| PPC-STAND-A1E      | Stand for PPC series                                                  |
| PPC-ARM-A03        | ARM VESA Standard for PPC series                                      |
| PPC-WLAN-D2        | M.2, WiFi6 +BT5.2, 2T2R, w/Antenna                                    |
| 98R3P300010        | PPC-300 RFID, Read only 13.56MHz&125k                                 |
| 98R1P300S00        | Add-on box for PCI or PCIe expansion (include PCI / PCIe riser card)* |
| 98R1P300S10        | Additional ports module (2 x USB 2.0)                                 |

\* PCIe riser card supports PCIe x1 singal, but the slot is PCIe x4(PCle x1 compatible).

## Support iDoor Modules

| Part Number    | Description                                        |
|----------------|----------------------------------------------------|
| PCM-34R1TP-AE  | 1 port Gigabit Ethernet, Intel® I225, 2.5Gb/s, TSN |
| PCM-34R2GL-AE  | 2 ports Gigabit Ethernet, Intel® I350              |
| PCM-34D2R4-AE  | 2 ports Isolated RS-422/485, DB9                   |
| PCM-34D2R2-AE  | 2 ports Isolated RS-232, DB9                       |
| PCM-34D4R4-AE  | 4 ports non-isolated RS-422/485, DB37 cable        |
| PCM-34D4R2-AE  | 4 ports non-isolated RS-232, DB37 cable            |
| PCM-37D24DI-AE | 4 channels isolated digital I/O with counter, DB37 |
| PCM-23C1CF-BE  | 1 slot Cfast iDoor for CFast                       |

## I/O View



- A. Line out
- B. COM1: RS-232/422/485
- C. COM2: RS-232/422/485
- D. 2 x LAN
- E. DP
- F. 3 x USB 3.2
- G. 1 x USB 2.0
- H. DC-In
- I. Power Button
- J. Pre cut hole for power button cable extend

Vertrieb durch **AMC**

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