

PPC-D & B Series

Modular Panel PC
Support Intel Core i/Celeron, Touch function



Features:

- Industrial-grade LCD
- True-flat touchscreen with multi-touch projected capacitive control or 5 wire resistive
- IP66-rated front panel
- Equip with Power LED in front
- Intel processor or touch function selectable

Specification:

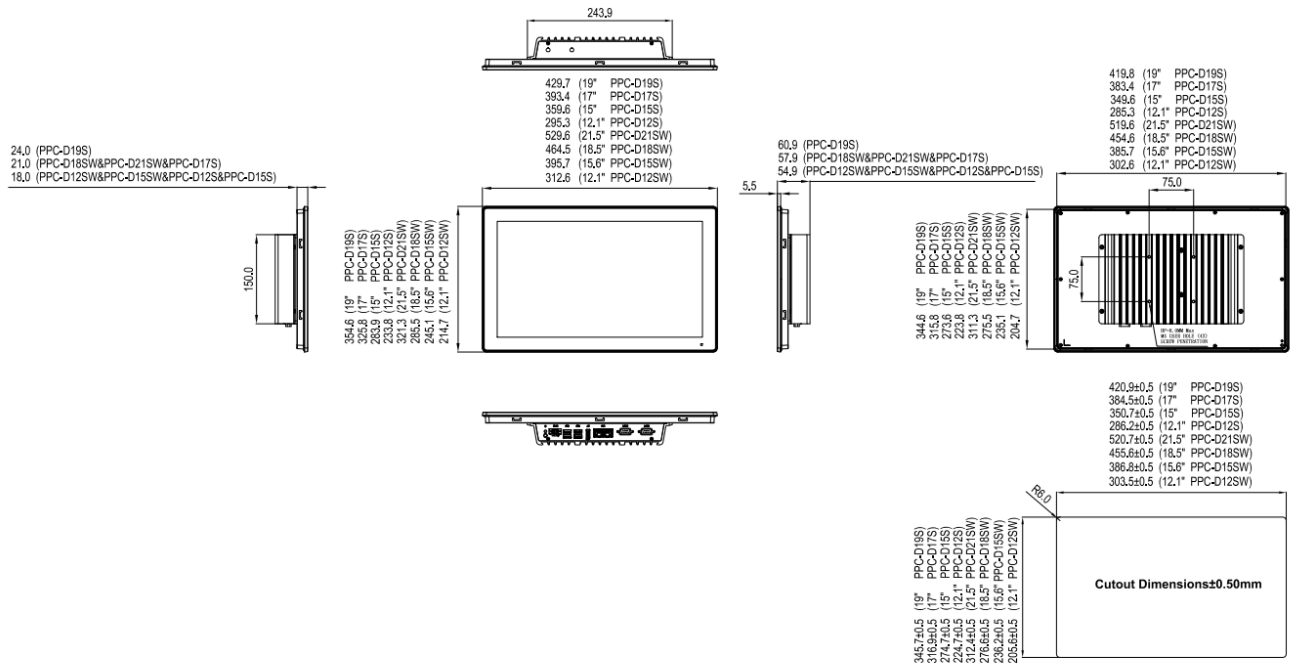
Front Panel/Model		PPC-D12SW	PPC-D15SW	PPC-D18SW	PPC-D21SW
LCD	Display Size	12.1	15.6	18.5	21.5
	Display Type	WXGA TFT LED LCD	FHD TFT LED LCD	FHD TFT LED LCD	FHD TFT LED LCD
	Aspect Ratio	16:10	16:9	16:9	16:9
	Max. Resolution	1280 x 800	1920 x 1080	1920 x 1080	1920 x 1080
	Max. Color	16.7 M	16.7M	16.7M	16.7M
	Luminance	400	350	500	350
	Viewing Angle	170, 170	178, 178	170, 170	178, 178
	Backlight Life	50,000hrs	50,000hrs	50,000hrs	30,000hrs
	Contrast Ratio	1200	800	1200	1500
Touch	Type	Multi-touch projected capacitive or 5 wire resistive touch			
	Light Transmission	>86% (P-cap) or 80±5% (Res)			
Physical	Dimension(mm)	312.6 x 214.7 x 18	395.7 x 245.1 x 18	464.5 x 285.5 x 21	529.6 x 321.3 x 21
	Weight (kg)	1.7	2.0	3.8	5.2
Environment	Operating Temp.	-10 ~ 50°C	-10 ~ 50°C	-10 ~ 50°C	0 ~ 50°C
	Storage Temp.	-40 ~ 60 °C	-30 ~ 60 °C	-40 ~ 60 °C	-20 ~ 60 °C
	Relative Humidity	90% @ 40°C (non-condensing)			
	Front protection	IP66 compliant			
Front Panel/Model		PPC-D12S	PPC-D15S	PPC-D17S	PPC-D19S
LCD	Display Size	12.1	15	17	19
	Display Type	XGA TFT LED LCD	XGA TFT LED LCD	SXGA TFT LED LCD	SXGA TFT LED LCD
	Aspect Ratio	4:3	4:3	4:3	4:3
	Max. Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024
	Max. Color	16.7M	16.2M	16.7M	16.7M
	Luminance	500	300	250	250
	Viewing Angle	178, 178	176, 176	178, 178	178, 178
	Backlight Life	30,000hrs	50,000hrs	50,000hrs	30,000hrs
	Contrast Ratio	1000	2000	1000	1000
Touch	Type	5 wire resistive touch or Multi-touch projected capacitive			
	Light Transmission	80±5% (Res) or >86% (P-cap)			
Physical	Dimension(mm)	295.3 x 233.8 x 18	359.6 x 283.9 x 18	393.4 x 325.8 x 21	429.7 x 354.6 x 24
	Weight (kg)	1.8	2.7	3.6	4.5
Environment	Operating Temp.	-10 ~ 50°C	-10 ~ 50°C	0 ~ 50°C	0 ~ 50°C
	Storage Temp.	-20 ~ 60 °C	-30 ~ 60 °C	-20 ~ 60 °C	-20 ~ 60 °C
	Relative Humidity	90% @ 40°C (non-condensing)			
	Front protection	IP66 compliant			

Computing Box/Model		PPC-B30-CI	PPC-B30-DI	PPC-B30-N9C	PPC-B30-N9B	PPC-B10
	CPU	i3-1215U; i5-1235U; i7-1255U	i3-1315U; i5-1335U; i7-1355U	N95	N95	\
	Memory	1 x SODIMM DDR4 3200MHz, max. 32GB		1 x SODIMM DDR4 3200MHz, max. 16GB	1 x SODIMM, DDR5 4800MHz, max. 16GB	\
System	Storage	1 x M.2 M key 2280 (SATA/PCIe x4, RAID 0,1 support); 1 x 2.5" SATA bay (by request, requires external expansion box)		1 x M.2 M key 2280 (SATA/PCIe x1); 1 x 2.5" SATA bay (by request, requires external expansion box)		\
	LAN	2 x 1 GbE Ethernet (Intel i210)		2 x 2.5 GbE Ethernet (Intel i226)		\
	I/O	2 x RS-232/422/485; 3 x USB 3.0, 1 x USB 2.0 1 x DP		2 x RS-232/422/485; 2 x USB 3.2, 2 x USB 2.0 1 x DP		Input: HDMI x1; DP x1; USB x1 (Type B) Output: USB x1 (Type A)
	Reserved I/O (by request)	2 x RS-232, 2 x USB 2.0, 1 x DIO			2 x USB 2.0, 1 x DIO	\
	Expansion	1 x M.2 E key 2230 (PCIe & USB 2.0) 1 x M.2 B key 2242 or 3042/3052 (SATA, PCIe X1, USB 3.0 & SIM slot)				\
	Watchdog Timer	255 timer levels; setup by software				
	Power Input	24VDC $\pm$ 30%				
	Power Consumption	Find details in below table				
OS	OS support	Windows 10, 11, Linux				\
Physical	Weight (kg)	1.45				0.5
Environment	Operating Temperature	-10 ~ 50°C				-10 ~ 50°C
	Relative Humidity	90% @ 40°C (non-condensing)				
	Shock	Operating 10 G peak acceleration (11 ms duration)				
	Vibration	Operating Random Vibration Test 5 ~ 500Hz				

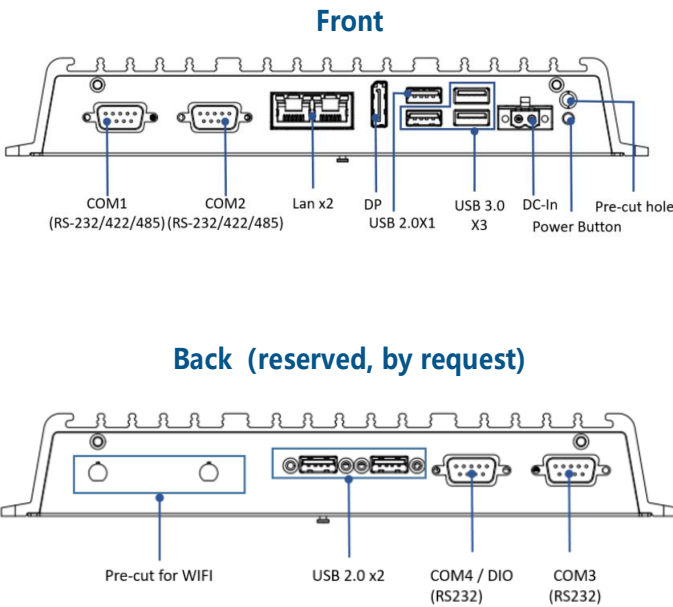
Power Consumption:

Model	Panel size	Resolution	Touch type	Ratio	Power Consumption (Type)		
					w/PPC-B30-xI	w/PPC-B30-N9	w/PPC-B10
PPC-D12S	12.1"	1024 x 768	Resistive or Pcap	4:3	58W	53W	15W
PPC-D15S	15"	1024 x 768	Resistive or Pcap	4:3	56W	51W	12W
PPC-D17S	17"	1280 x 1024	Resistive or Pcap	4:3	55W	50W	12W
PPC-D19S	19"	1280 x 1024	Resistive or Pcap	4:3	58W	53W	15W
PPC-D12SW	12.1"	1200 x 800	Resistive or Pcap	16:10	55W	51W	12W
PPC-D15SW	15.6"	1920 x 1080	Resistive or Pcap	16:9	58W	54W	15W
PPC-D18SW	18.5"	1920 x 1080	Resistive or Pcap	16:9	65W	60W	25W
PPC-D21SW	21.5"	1920 x 1080	Resistive or Pcap	16:9	58W	54W	20W

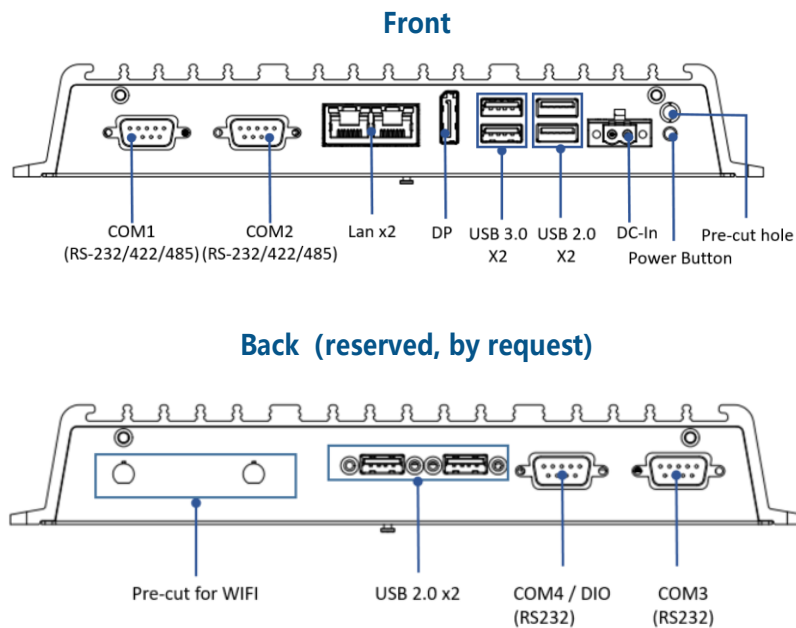
PPC-D+ B30 Dimension:



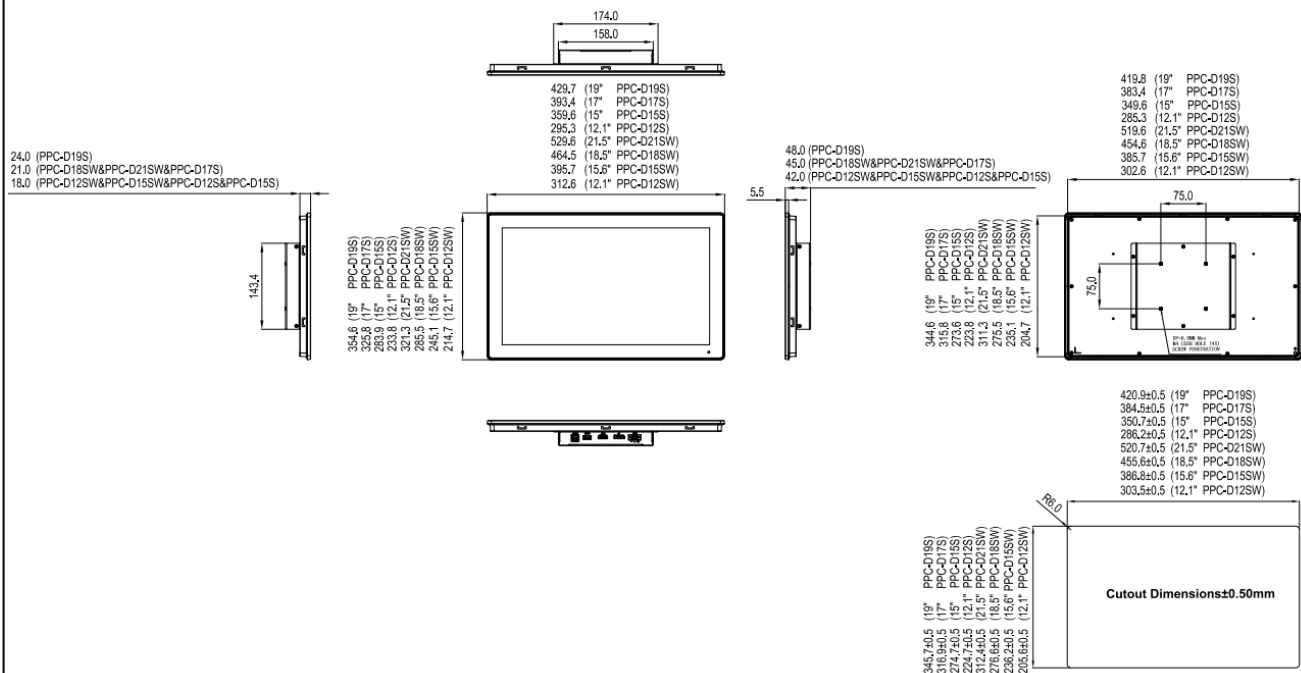
PPC-B30-xl IO placement:



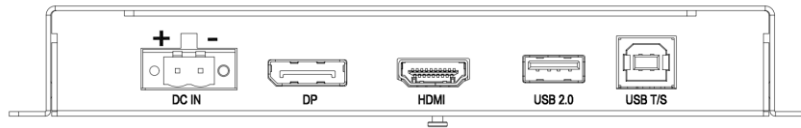
PPC-B30-N9 IO placement:



PPC-D+B10 Dimension:



PPC-B10 IO placement:



Ordering Information

Front Panel/Part Number	Description
PPC-D12SW-PA	12.1" 16:10 Display Module, P-cap
PPC-D12SW-RA	12.1" 16:10 Display Module, Res.
PPC-D15SW-PA	15.6" 16:9 Display Module, P-cap
PPC-D15SW-RA	15.6" 16:9 Display Module, Res.
PPC-D18SW-PA	18.5" 16:9 Display Module, P-cap
PPC-D18SW-RA	18.5" 16:9 Display Module, Res.
PPC-D21SW-PA	21.5" 16:9 Display Module, P-cap
PPC-D21SW-RA	21.5" 16:9 Display Module, Res.
PPC-D12S-RA	12.1" 4:3 Display Module, Res.
PPC-D12S-PA	12.1" 4:3 Display Module, P-cap
PPC-D15S-RA	15" 4:3 Display Module, Res.
PPC-D15S-PA	15" 4:3 Display Module, P-cap
PPC-D17S-RA	17" 4:3 Display Module, Res.
PPC-D17S-PA	17" 4:3 Display Module, P-cap
PPC-D19S-RA	19" 4:3 Display Module, Res.
PPC-D19S-PA	19" 4:3 Display Module, P-cap

Box/Part Number	Description
PPC-B30-CI3A (EOL)	Computing box compatible with PPC-D series, w/i3-1215U
PPC-B30-CI5A (EOL)	Computing box compatible with PPC-D series, w/i5-1235U
PPC-B30-CI7A (EOL)	Computing box compatible with PPC-D series, w/i7-1255U
PPC-B30-DI3A	Computing box compatible with PPC-D series, w/i3-1315U
PPC-B30-DI5A	Computing box compatible with PPC-D series, w/i5-1335U
PPC-B30-DI7A	Computing box compatible with PPC-D series, w/i7-1355U
PPC-B30-N9C	Computing box compatible with PPC-D series, w/ Intel® N95
PPC-B30-N9B	Computing box compatible with PPC-D series, w/ Intel® N95
PPC-B10-A	Touch monitor box compatible with PPC-D series

Peripherals/Part Number	Description
96PSA-A120W24T2-4	Power adapter 100-240V 120W 24V for PPC-B30-CI
96PSA-A90W19OT-3	Power adapter 100-240V 90W 19V for PPC-B30-N9
96PSA-A60W24T2-3	Power adapter 100-240V 60W 24V for PPC-B10
PPC-WLAN-D2	M.2, WiFi6 +BT5.2, 2T2R, w/Antenna for PPC-B30
98R3P300010	PPC-300 RFID Read only 13.56MHz&125k for PPC-B30
PPC-174T-WL-MTE	Wall mount kit for PPC series
PPC-Stand-A1E	Stand for PPC series
1960119932N001	Heat shield for PPC-B30

Appendix:

Step 1: Select Front Panel Model

4:3 Ratio /Regular Size



12": PPC-D12s

15": PPC-D15s

17": PPC-D17s

19": PPC-D19s

16:9 Ratio /Wide Size



15.6": PPC-D15sw

18.5": PPC-D18sw

21.5": PPC-D21sw

* Both Pcap and resistive touch type are available in each size.

Step 2: Select Computing Box Model

Intel Core i

PPC-B30-CI

Intel i3-1215U/i5-1235U/i7-1255U embedded



Intel Celeron

PPC-B30-N9

Intel N97/N95 embedded



Touch only

PPC-B10

Touch function only



Step 3: Peripherals

- Memory

- Storage

- Power adapter

- Power cord

- OS



