

# PPC-2150 Series

21.5" Widescreen Multi-Touch Flat Panel PC  
with Intel® Skylake / Kaby Lake U-Series Processors



- 21.5" widescreen 10-point PCT multi-touch LCD display
- Intel® Skylake / Kaby Lake U-Series Processors
- 2x DDR4 SO-DIMM Memory Socket
- 1x HDMI2.0, 1x DP for display output
- 2x GbE LAN for Ethernet
- 4x USB3.0, 2x RS-232/422/485 for peripherals
- 1x 2.5" SATA3.0 HDD / SSD for Storage
- 1x mPCIe, 1x M.2 Key B for expansion
- Passive cooling design
- IP65 front design
- Glass hardness of 6H

## Product Overview

Powered by Intel® 6th / 7th Generation Skylake / Kaby Lake U-Series Processors, PPC-2150 Series Flat Panel PC has greatly improved graphics performance, power efficiency and wireless connectivity. In addition to 1x HDMI2.0, 1x DP, 2x GbE LAN, 4x USB3.0 and 2x RS-232/422/485 for display output, Ethernet and peripheral applications, it reserves 1x mPCIe and 1x M.2 Key B for wireless, storage or other possible functional expansion.

The 21.5" widescreen with 16:9 aspect ratio and 10-point PCT multi-touch function is its another important feature, which can provide comfortable viewing experience to operators and allow multi-window display without toggling.

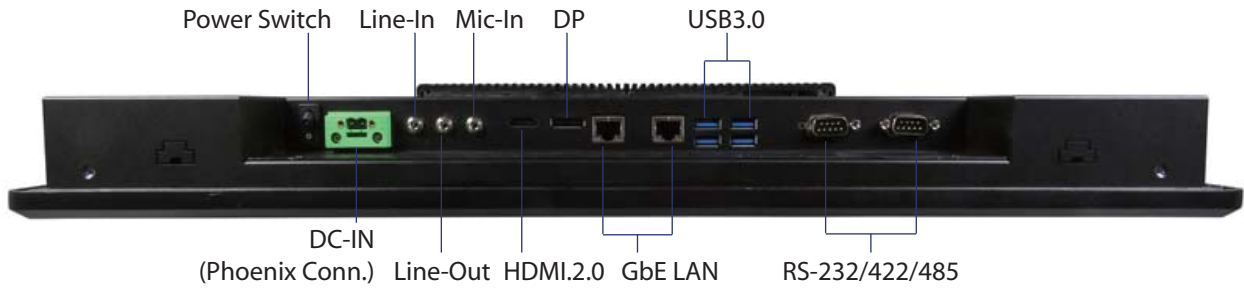
Finally, the IP65-rated front design can provide good resistance to water spray and makes it suitable for harsh environments.

## Technical Information

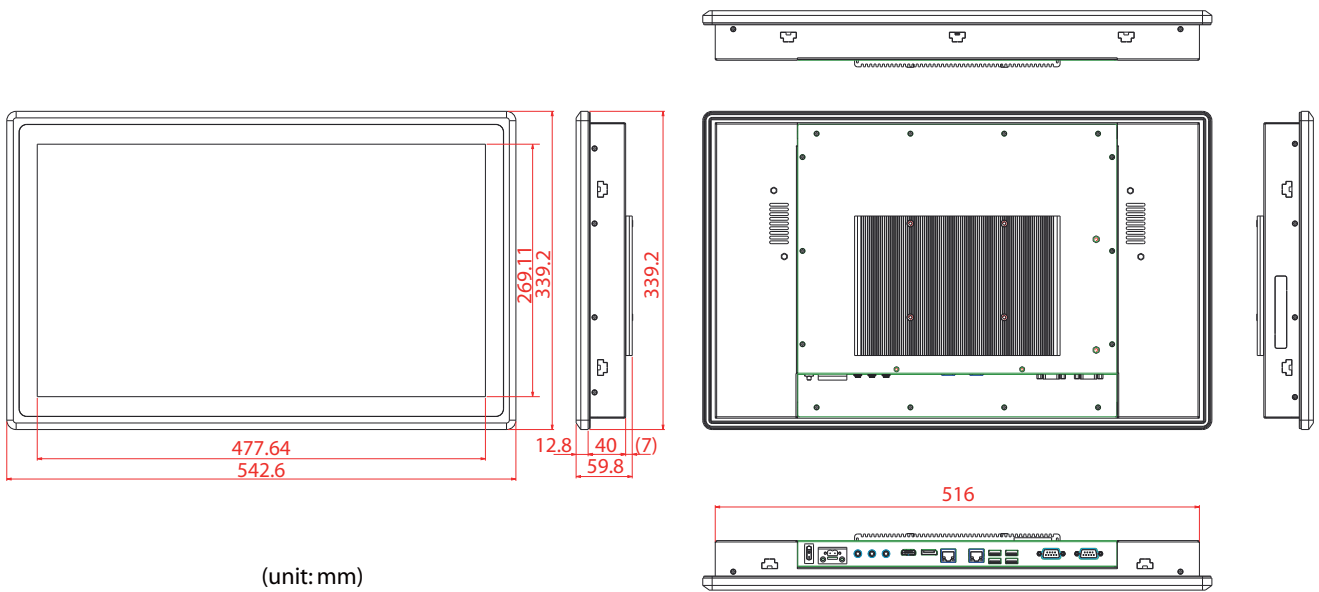
CPU Support	
Intel® Skylake ULT Processor, Core™ i7-6600U (Dual Core, 4M Cache, up to 3.40 GHz, FCBGA1356, 15W TDP)	
Intel® Skylake ULT Processor, Core™ i5-6300U (Dual Core, 3M Cache, up to 3.00 GHz, FCBGA1356, 15W TDP)	
Intel® Kaby Lake ULT Processor, Core™ i3-7100U (Dual Core, 3M Cache, 2.40 GHz, FCBGA1356, 15W TDP)	
Intel® Kaby Lake ULT Processor, Core™ i7-7600U (Dual Core, 4M Cache, up to 3.90 GHz, FCBGA1356, 15W TDP)	
Intel® Kaby Lake ULT Processor, Celeron® 3965U (Dual Core, 2M Cache, 2.20 GHz, FCBGA1356, 15W TDP)	
Memory	
2x DDR4 2133 SO-DIMM up to 16GB	
Graphic Controller	
Intel® HD Graphics 520 (Skylake Core™ i CPU)	
Intel® HD Graphics 610 (Kaby Lake Celeron® CPU)	
Intel® HD Graphics 620 (Kaby Lake Core™ i CPU)	
Display Panel	
Size	21.5 inch
Aspect Ratio	16:9
Backlight	LED
Resolution	1920 x 1080 Full HD
Brightness (cd/m², typ.)	250
Contrast Ratio (typ.)	5000:1
Color	16.7M
Viewing Angle (L/R/H/L)	89°/89°/89°/89°
Touch	10-point PCT
Display Interfaces	
1x HDMI2.0 (on rear, 4096 x 2160 @ 60Hz)	
1x DP (on rear, 4096 x 2304 @ 60Hz)	
Multiple Display	
Triple	
Audio Chipset	
Realtek ALC662	
Audio Interfaces	
2x Speaker-out (3W)	
1x Line-in (on rear)	
1x Line-out (on rear)	
1x Mic-in (on rear)	
Ethernet	
2x GbE LAN (RJ-45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT)	

USB	
4x USB3.0 (Type A on rear)	
Serial Ports	
2x RS-232/422/485 (DB9 on rear, w/ auto flow control for RS-485)	
Storage & Expansion	
1x 2.5" SATA3.0 HDD / SSD	
1x mPCIe (full size)	
1x M.2 Key B Socket (mixed w/ USB2.0 or SATA)	
1x SIM Card Cage (optional, switchable for mPCIe or M.2)	
Power Supply	
Connector: Phoenix Connector (on rear)	
Input Voltage: DC 12V	
Power Adapter: AC to DC, 100V ~ 240V	
Firmware	
BIOS: AMI uEFI BIOS w/ 128Mb SPI Flash	
Watchdog: Programmable WDT to generate system reset event	
H/W Monitor: Voltages, Temperatures	
Real Time Clock: Processor integrated RTC	
TPM: Supported by default for model w/ Core™ i7 / i5, optional for others	
Infineon SLB 9660 TPM1.2 for model w/ Skylake CPU	
Infineon SLB 9665 TPM2.0 for model w/ Kaby Lake CPU	
iAMT: Supported for model w/ Core™ i7 / i5 CPU	
System Control & Monitoring	
1x Power Switch (on rear)	
Cooling	
Passive	
OS Support	
Windows 7 (Skylake only), Windows 8 (Skylake only), Windows 10, Linux	
Construction	
Glass Surface + Aluminum Front Bezel + Metal Chassis + Al. Heat Sink	
Dimensions (W x H x D)	
542.6 x 339.2 x 59.8 mm / 21.36" x 13.35" x 2.35"	
Weight	
7000 g / 15.43 lb	
Mounting	
VESA Mount, Panel Mount	
Environmental Characteristics	
Operation Temp.: 0°C ~ 50°C / 32°F ~ 122°F	
Storage Temp.: -20°C ~ 70°C / -4°F ~ 158°F	
Humidity: 0% ~ 95%	
Certification	
CE, FCC Class B, IP65 (front)	

## Rear I/O Ports



## Mechanical Dimensions



## Ordering Information

Article	Description
PPC-2150	21.5" 10-point PCT, Intel® Core™ i7-6600U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 2x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x 2.5" SATA3.0 HDD / SSD, 1x mPCIe, 1x M.2
PPC-2151	21.5" 10-point PCT, Intel® Core™ i5-6300U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 2x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x 2.5" SATA3.0 HDD / SSD, 1x mPCIe, 1x M.2
PPC-2153	21.5" 10-point PCT, Intel® Core™ i3-7100U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 2x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x 2.5" SATA3.0 HDD / SSD, 1x mPCIe, 1x M.2
PPC-2154	21.5" 10-point PCT, Intel® Core™ i7-7600U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 2x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x 2.5" SATA3.0 HDD / SSD, 1x mPCIe, 1x M.2
PPC-2156	21.5" 10-point PCT, Intel® Celeron® 3965U, 2x DDR4 SO-DIMM, 1x HDMI2.0, 2x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x 2.5" SATA3.0 HDD / SSD, 1x mPCIe, 1x M.2

## Optional Accessories

Product Name	Description
VESA Mounting Kit	Hole pattern: 100 x 100 mm & 75 x 75 mm, dimension: 163 x 130 mm