

# OPC-1562/1852/2152

15.6"/18.5"/21.5" Widescreen Fanless Open Frame Panel PC  
with Intel® Apollo Lake SoC Processor, Pentium® N4200



- 15.6" / 18.5" / 21.5" 16:9 Widescreen LCD Display
- 5-wire resistive or 10-point PCT touch panel
- Intel® Apollo Lake SoC Processor, Pentium® N4200
- 2x DDR3L SO-DIMM memory socket
- 1x HDMI, 1xDP for video output
- 2x GbE LAN for Ethernet
- 4x USB3.0, 2x RS-232/422/485 for peripheral connection
- 1x 2.5" SATA3.0 HDD / SSD for storage
- 1x mPCIe, 1x M.2 Key B for expansion
- Fanless design



## Product Overview

OPC-1562/1852/2152 is a fanless open frame panel PC powered by Intel® Apollo Lake Processor, Pentium® N4200. It can be immediately integrated in many applications such as digital signage, kiosk and HMI automation. Besides a 15.6" / 18.5" / 21.5" widescreen display, it is equipped with 1x DP and 1x HDMI for additional video

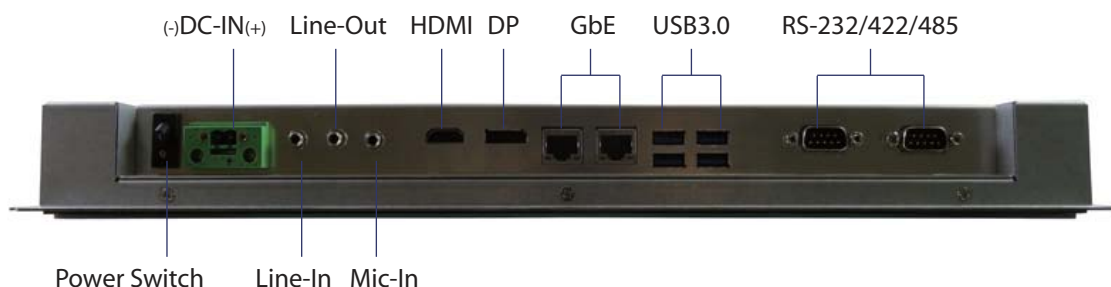
output. Touch screen can use either 5-wire resistive single-touch or 10-point PCT multi-touch panel depending on applications or requirements. The device reserves one mPCIe slot and one M.2 Key B slot, allowing users to install interface cards for specific application and connectivity.

## Technical Information

CPU Support			
Intel® Pentium® N4200 (Quad Core, 2M Cache, up to 2.50 GHz, FCBGA1296, 6W TDP)			
Memory			
2x DDR3L 1867 SO-DIMM Socket			
Graphic Controller			
Intel® HD Graphics 505			
Display Panel	OPC-1562	OPC-1852	OPC-2152
Size	15.6 inch	18.5 inch	21.5 inch
Aspect Ratio	16:9	16:9	16:9
Backlight	LED	LED	LED
Resolution	1366x768 WXGA	1366x768 WXGA	1920x1080 Full HD
Brightness (cd/m², typ.)	300	300	250
Construct Ratio (typ.)	500:1	1000:1	5000:1
Color	262K / 16.7M	16.7M	16.7M
Viewing Angle (L/R/H/L)	80°/80°/80°/80°	85°/85°/80°/80°	89°/89°/89°/89°
Touch	5-wire resistive / 10-point PCT		
Display Interfaces			
1x HDMI (3840 x 2160 @ 30Hz, on rear)			
1x DP (4096 x 2160 @ 60Hz, on rear)			
Multiple Display			
Triple			
Audio Chipset			
Realtek ALC662			
Audio Interfaces			
1x Line-in (on rear)			
1x Line-out (on rear)			
1x Mic-in (on rear)			
Ethernet			
2x GbE LAN (RJ-45 on rear, Intel® I210-AT)			
USB			
4x USB3.0 (Type A on rear)			
Serial Ports			
2x RS-232/422/485 (DB9 on rear, auto flow control function for RS-485)			

Storage & Expansion
1x 2.5" SATA3.0 HDD / SSD 1x mPCIe (full size) 1x M.2 Key B (mixed w/ USB2.0 / SATA type 22x42) 1x SIM Card Cage (optional, switchable between mPCIe and 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: optional (Infineon SLB 9665 TPM 2.0)
System Control & Monitoring
1x Power Switch (on rear)
Cooling
Passive
OS Support
Windows 10, Linux
Construction
Open Frame Metal Chassis
Dimensions (W x H x D)
425.1 x 272.6 x 40 mm / 16.74" x 10.73" x 1.57" (OPC-1562) 491.6 x 312.5 x 40 mm / 19.35" x 12.30" x 1.57" (OPC-1852) 546.6 x 341.6 x 40 mm / 21.52" x 13.45" x 1.57" (OPC-2152)
Weight
2450 g / 7.61 lb (OPC-1562)
Mounting
Open Frame Mount, VESA Mount, Panel Mount
Environmental Characteristics
Operation Temp.: 0°C ~ 50°C / 32°F ~ 122°F Storage Temp.: -20°C ~ 60°C / -4°F ~ 140°F Humidity: 0% ~ 95%
Certification
CE, FCC Class A

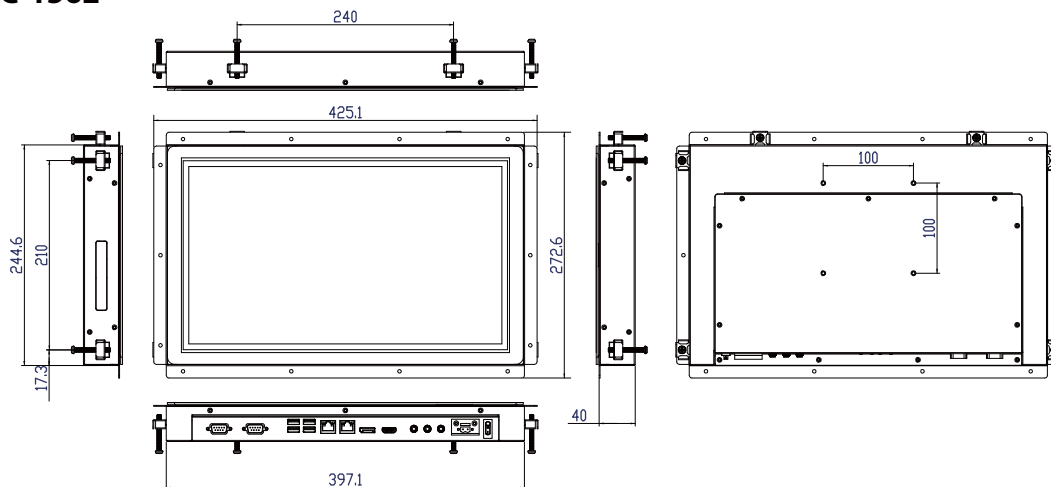
## Rear I/O Ports



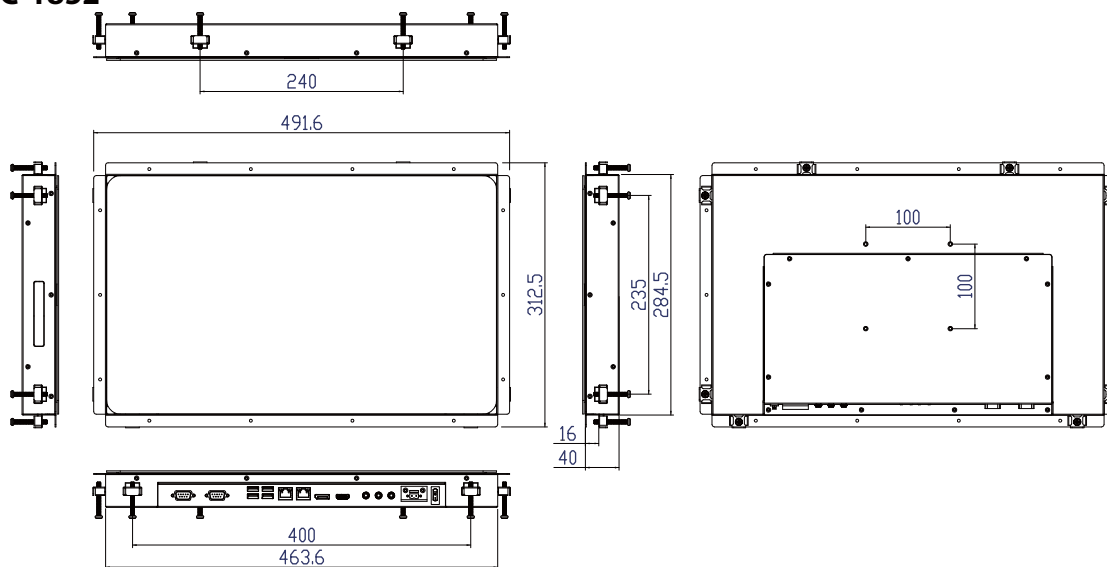
## Dimension

### OPC-1562

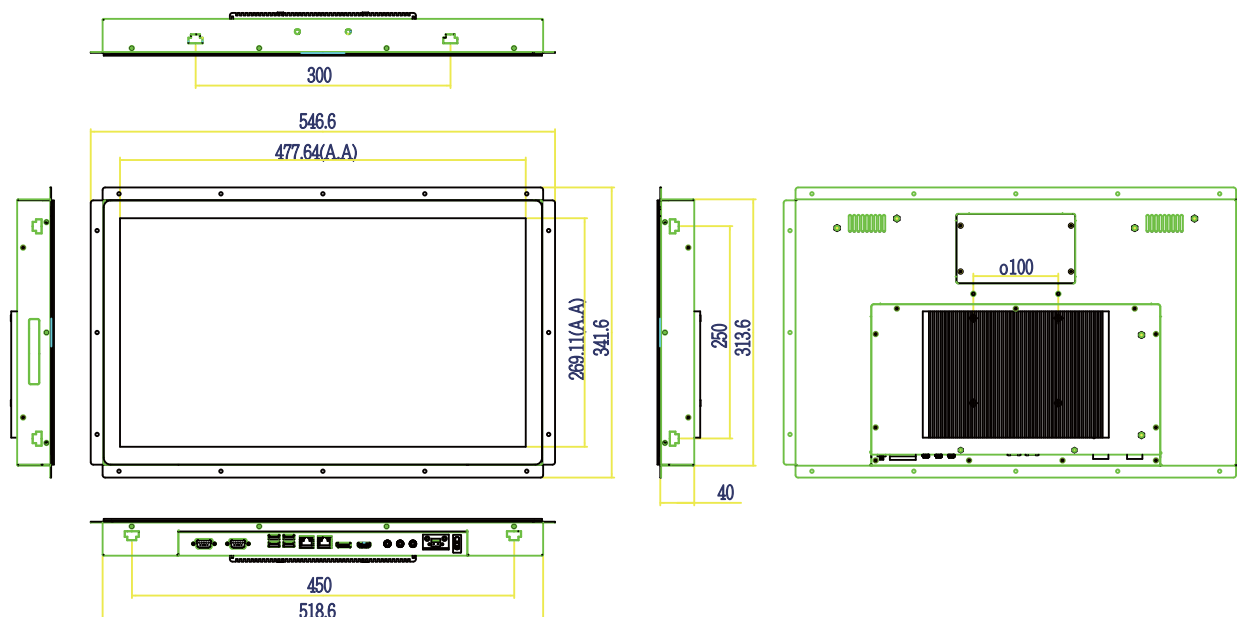
unit: mm



### OPC-1852



### OPC-2152



## Ordering Information

Article	Part No.	Description
OPC-1562		15.6" 16:9 screen, Intel® Pentium® N4200, 2x DDR3L SO-DIMM, 1x HDMI, 1x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x 2.5" SATA3.0 HDD / SSD, 1x mPCIe, 1x M.2
OPC-1852		18.5" 16:9 screen, Intel® Pentium® N4200, 2x DDR3L SO-DIMM, 1x HDMI, 1x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x 2.5" SATA3.0 HDD / SSD, 1x mPCIe, 1x M.2
OPC-2152		21.5" 16:9 screen, Intel® Pentium® N4200, 2x DDR3L SO-DIMM, 1x HDMI, 1x DP, 2x GbE, 4x USB3.0, 2x RS-232/422/485, 1x 2.5" SATA3.0 HDD / SSD, 1x mPCIe, 1x M.2