

# KPC-1900 Series

**Preliminary**

19" Industrial Touch Panel PC  
with 6th / 7th Gen. Intel® Skylake / Kaby Lake S Processors



- LGA1151 Socket 6th / 7th Gen. Intel® Skylake / Kaby Lake S Processor (35W TDP)
- Intel® Q170 / H110 Express Chipset
- 2x DDR4 1866/2133 SO-DIMM Socket up to 32GB
- 1x 2.5" HDD / SSD for Storage
- 19" 5-wire resistive LCD touch display
- 1x DVI-D, 2x DP for display output
- Triple display support
- 2x LAN, 4x USB3.0, 2x USB2.0, 6x COM for wired network and peripherals
- 1x mSATA/mPCIe + 1x mPCIe or 2x mPCIe, 2x PCIe x8 on rear for storage & expansion
- TPM & iAMT support
- IP65 aluminium front bezel

## Product Overview

Powered by Intel®'s latest 6th / 7th Generation Skylake / Kaby Lake S Series Processor, KPC-1900 Series Panel PC has greatly improved graphics performance, power efficiency and wireless connectivity. In addition to 1x DVI-D, 2x DP, 4x USB3.0, 2x USB2.0, 6x COM, and 2x LAN for display output, peripheral applications and wired networking, it has a variety of expansion slots /sockets for

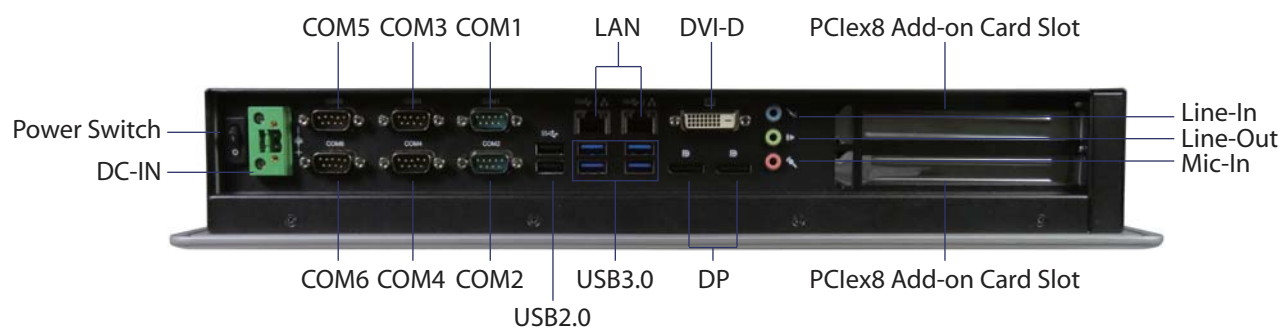
wireless, storage or other function expansion, including PCIe8 add-on card, mPCIe / mSATA, SATA slots / sockets.

Finally, an IP65-rated aluminium front bezel that houses the LCD display can provide good resistance to water spray and makes it suitable for harsh environments.

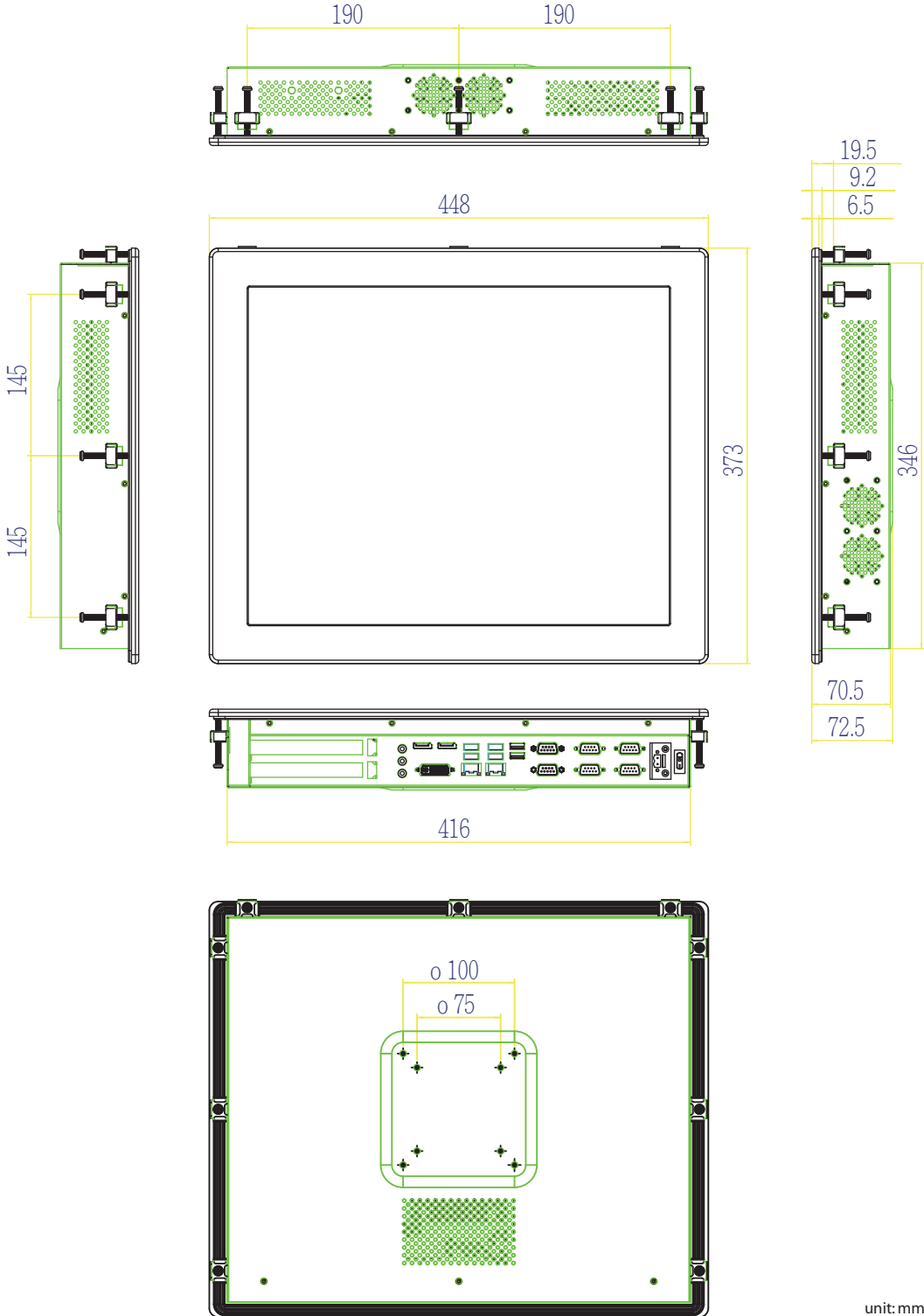
## Technical Information

<b>CPU Support</b>	<p><b>KPC-1900/1901:</b> 6th Gen. Intel® Skylake S Processors (FCLGA1151 Socket, up to 35W)</p> <p><b>KPC-1902/1903:</b> 7th Gen. Intel® Kaby Lake S Processors (FCLGA1151 Socket, up to 35W)</p>	<b>Storage &amp; Expansion</b>	<p>1x 2.5" SATA HDD / SSD</p> <p>1x mSATA / mPCIe (Q170 models, KPC-1900/1902)</p> <p>1x mPCIe (Q170 models, KPC-1900/1902)</p> <p>2x mPCIe (H110 models, KPC-1901/1903)</p> <p>2x PCIe8 add-on card slot (on rear)</p> <p>1x SIM Card Cage (optional)</p>																		
<b>Chipset</b>	<p>Intel® Q170 (KPC-1900/1902)</p> <p>Intel® H110 (KPC-1901/1903)</p>	<b>Power Supply</b>	<p>Connector: Phoenix Connector (on rear)</p> <p>Input Voltage: DC 12V (default), 24V or other options (by request)</p> <p>Power Adapter: AC to DC, 100V ~ 240V</p>																		
<b>Memory</b>	2x DDR4 1866/2133 SO-DIMM up to 32GB	<b>Firmware</b>	<p>BIOS: AMI uEFI BIOS w/ 128Mb SPI Flash</p> <p>Watchdog: Programmable WDT to generate system reset event</p> <p>H/W Monitor: Input &amp; Core Voltages, CPU &amp; System Temperatures</p> <p>Real Time Clock: Chipset integrated RTC</p> <p>TPM: Yes (Infineon SLB 9660 TPM 1.2)</p> <p>iAMT: depending on processor</p>																		
<b>Graphic Controller</b>	up to Intel® HD Graphics 620	<b>System Control &amp; Monitoring</b>	1x Power Switch (on rear)																		
<b>Display Panel</b>	<table border="1"> <tr><td>Size</td><td>19 inch</td></tr> <tr><td>Aspect Ratio</td><td>5:4</td></tr> <tr><td>Backlight</td><td>LED</td></tr> <tr><td>Resolution</td><td>1280 x 1024 SXGA</td></tr> <tr><td>Brightness (cd/m<sup>2</sup>, typ.)</td><td>250</td></tr> <tr><td>Contrast Ratio (typ.)</td><td>1000:1</td></tr> <tr><td>Color</td><td>16.7M</td></tr> <tr><td>Viewing Angle (L/R/H/L)</td><td>85°/85°/80°/80°</td></tr> <tr><td>Touch</td><td>5-wire resistive touch sensor</td></tr> </table>	Size	19 inch	Aspect Ratio	5:4	Backlight	LED	Resolution	1280 x 1024 SXGA	Brightness (cd/m <sup>2</sup> , typ.)	250	Contrast Ratio (typ.)	1000:1	Color	16.7M	Viewing Angle (L/R/H/L)	85°/85°/80°/80°	Touch	5-wire resistive touch sensor	<b>Cooling</b>	<p>1x CPU Smart Fan</p> <p>1x System Smart Fan</p>
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<b>Display Interfaces</b>	<p>1x DVI-D (on rear, 2560 x 1600 @ 60Hz)</p> <p>2x DP (on rear, 4096 x 2304 @ 60Hz)</p> <p>Triple Display</p>	<b>OS Support</b>	Windows, Linux																		
<b>Audio Chipset</b>	Realtek ALC662	<b>Construction</b>	Metal Chassis + Aluminium Front Bezel																		
<b>Audio Interfaces</b>	<p>1x Line-in (on rear)</p> <p>1x Line-out (on rear)</p> <p>1x Mic-in (on rear)</p>	<b>Dimensions (W x H x D)</b>	448 x 373 x 72.5 mm / 17.64" x 14.69" x 2.85"																		
<b>Ethernet</b>	2x LAN (RJ-45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT)	<b>Weight</b>	7650 g / 16.87 lb																		
<b>USB</b>	<p>4x USB3.0 (Type A on rear)</p> <p>2x USB2.0 (Type A on rear)</p>	<b>Mounting</b>	VESA Mount, Panel Mount																		
<b>Serial Ports</b>	<p>3x RS-232/422/485 (DB9 on rear)</p> <p>3x RS-232 (DB9 on rear)</p>	<b>Environmental Characteristics</b>	<p>Operation Temp.: 0°C ~ 50°C / 32°F ~ 122°F</p> <p>Storage Temp.: -20°C ~ 70°C / -4°F ~ 158°F</p> <p>Humidity: 0% ~ 95%</p>																		
		<b>Certification</b>	CE, FCC Class A, IP65 (front bezel)																		

## KPC-1900 Series Rear I/Os



Mechanical Dimensions



unit:mm

  
 **Ordering Information**

Article	Part No.	Description
KPC-1900		Intel® Skylake S Processor, Intel® Q170 Chipset, 1x DVI-D, 2x DP, 2x LAN, 4x USB3.0, 2x USB2.0, 3x RS-232/422/485, 3x RS-232, 1x mSATA/mPCIe, 1x mPCIe, 2x PCIe8
KPC-1901		Intel® Skylake S Processor, Intel® H110 Chipset, 1x DVI-D, 2x DP, 2x LAN, 4x USB3.0, 2x USB2.0, 3x RS-232/422/485, 3x RS-232, 2x mPCIe, 2x PCIe8
KPC-1902		Intel® Kaby Lake S Processor, Intel® Q170 Chipset, 1x DVI-D, 2x DP, 2x LAN, 4x USB3.0, 2x USB2.0, 3x RS-232/422/485, 3x RS-232, 1x mSATA/mPCIe, 1x mPCIe, 2x PCIe8
KPC-1903		Intel® Kaby Lake S Processor, Intel® H110 Chipset, 1x DVI-D, 2x DP, 2x LAN, 4x USB3.0, 2x USB2.0, 3x RS-232/422/485, 3x RS-232, 2x mPCIe, 2x PCIe8