




# 17.3" *Wide* PA70ES-G



## **Advanced specifications for the demanding applications**

Satisfy all your entertainment needs with this 17.3" laptop. Equipped with NVIDIA Enthusiast Graphic Card technology, and Sound BlasterX<sup>®</sup> Pro-Gaming 720° system, an extremely versatile laptop is ready to rock your world!

# PA70ES-G Specification

<b>Processor</b>	<ul style="list-style-type: none"> <li>• Intel® Core™ i9-8950HK processor (14nm, 2.9GHz, DDR4 2666MHz, 12MB Smart cache, TDP: 45W)</li> <li>• Intel® Core™ i7-8750H processor (14nm, 2.2GHz, DDR4 2666MHz, 9MB Smart cache, TDP: 45W)</li> <li>• Intel® Core™ i5-8300H processor (14nm, 2.3GHz, DDR4 2666MHz, 9MB Smart cache, TDP: 45W)</li> <li>• Support CPU over clocking on K processor</li> </ul>
<b>Core Logic</b>	• Mobile Intel® HM370 Express Chipset
<b>Display</b>	• 17.3" (43.94cm) UHD (3840x2160) / QHD (2560x1440) / FHD (1920x1080) 16:9 panel, 4.0mm
<b>Memory</b>	<ul style="list-style-type: none"> <li>• Dual channel DDR4</li> <li>• Two 260 pins SODIMM sockets, support DDR4 2400/2666 MHz (Real operation frequency depends on processor)</li> <li>• Expandable memory from 8GB to 32GB, depends on 4GB/8GB/16GB SODIMM module</li> <li>• Support XMP 3000 MHz (XMP support depends on processor)</li> </ul>
<b>Video Controller</b>	<ul style="list-style-type: none"> <li>• Intel® UHD Graphics 630 <ul style="list-style-type: none"> <li>- Dynamic frequency</li> <li>- Intel Dynamic Video Memory Technology</li> <li>- Microsoft DirectX® 12 compatible</li> </ul> </li> <li>• NVIDIA® GeForce GTX 1070 (N17E-G2) <ul style="list-style-type: none"> <li>- 8GB GDDR5 Video RAM</li> <li>- Support PCIe x16</li> <li>- Microsoft DirectX® 12 compatible</li> <li>- NVIDIA® PhysX®</li> <li>- GeForce CUDA™ technology</li> <li>- GPU over clocking</li> </ul> </li> </ul>
	<ul style="list-style-type: none"> <li>• Microsoft Hybrid Graphics mode or dGPU Mode</li> <li>• Support 4 active displays</li> <li>• Support NVIDIA® Surround View via HDMI x1 and miniDP x2</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• One changeable 2.5" 7mm/9.5mm(H) HDD/SSD. SATA interface</li> <li>• (Factory Option) Two M.2 2280 SSD SATA interface (RAID 0/1) or Two M.2 2280 SSD PCIe Gen3x4 interface</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>• High Definition Audio</li> <li>• S/PDIF digital output</li> <li>• Built in array microphone</li> <li>• Built in two 2W speakers</li> <li>• Built in one 4W subwoofer speaker</li> <li>• Sound BlasterX® Pro-Gaming 720°</li> <li>• External 5.1CH audio output supported by 2-in-1 Audio, microphone and headphone jacks</li> </ul>
<b>Keyboard and Pointing Device</b>	<p>For processor i9-8950HK series:</p> <ul style="list-style-type: none"> <li>• Multi languages LED per key full color illuminated full size keyboard with numeric pad</li> <li>• (Factory Option) Built in Secure pad or Touch pad with Microsoft PTP multi-gesture and scrolling function</li> <li>• W/A/S/D Gaming key on full color illuminated keyboard</li> </ul> <p>For other processor series excluding i9-8950HK:</p> <ul style="list-style-type: none"> <li>• Multi languages full color illuminated full size keyboard with numeric pad</li> <li>• (Option) Multi languages LED per key full color illuminated full size keyboard with numeric pad</li> <li>• (Factory Option) Built in Secure pad or Touch pad with Microsoft PTP multi-gesture and scrolling function</li> <li>• W/A/S/D Gaming key on full color illuminated keyboard</li> </ul>
<b>I/O ports</b>	<ul style="list-style-type: none"> <li>• 1 x USB 3.1 Gen 2 port (Type-C) or (Factory Option) 1x Thunderbolt™ 3 port</li> <li>• 2 x USB 3.1 Gen 2 ports (Type-A) (1 x powered USB port, AC/DC)</li> <li>• 2 x USB 3.0 ports (USB3.1 Gen1)</li> <li>• 2 x Mini Display ports 1.3</li> <li>• 1 x HDMI™ output port (with HDCP)</li> <li>• 1 x 2-in-1 Audio jack (Line out / S/PDIF Optical output)</li> <li>• 1 x Microphone jack</li> <li>• 1 x Headphone jack</li> <li>• 1 x RJ-45 LAN port</li> <li>• 1 x DC-in jack</li> </ul>
	
<b>Card Reader</b>	<ul style="list-style-type: none"> <li>• 6-in-1 Push-Push Card reader <ul style="list-style-type: none"> <li>- MMC / RSMHC</li> <li>- SD / mini SD / SDHC / SDXC up to UHS-II</li> </ul> </li> </ul>
<b>Slot</b>	<ul style="list-style-type: none"> <li>• Three M.2 card slots <ul style="list-style-type: none"> <li>- 1st for WLAN Combo M.2 2230 Card with PCIe / USB / CNVi interface (E key)</li> <li>- 2nd for SSD M.2 2280 Card with SATA3 / PCIe Gen3x4 interface or Optane™ (M key)</li> <li>- 3rd for SSD M.2 2280 Card with SATA3 / PCIe Gen3x4 interface (M key)</li> </ul> </li> </ul>
<b>Communication</b>	<ul style="list-style-type: none"> <li>• Built in 10/100/1000Mb Base-TX Ethernet LAN</li> <li>• (Factory Option) Intel® Dual Band Wireless-AC 9560, 2x2 AC + BT M.2 2230 (Jefferson Peak 2)</li> <li>• (Factory Option) Intel® Dual Band Wireless-AC 9260, 2x2 AC + BT M.2 2230 (Thunder Peak 2)</li> <li>• (Factory Option) Intel® Dual Band Wireless-AC 9462, 1x1 AC + BT M.2 2230 (Jefferson Peak 1)</li> <li>• (Factory Option) Qualcomm® Atheros Killer™ Dual Band Wireless-AC 1550i, 2x2 AC + BT M.2 2230</li> <li>• 2.0M FHD video camera</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• Full Range AC adapter, AC in 100~240V, 50~60Hz, DC output 19.5V, 11.8A, 230W</li> <li>• Embedded 4 cells Polymer battery pack, 66WH</li> <li>• Battery life: 430 minutes (with UMA mode, 66WH Battery)</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>• Security (Kensington® Type) Lock Slot</li> <li>• Intel® PTT for system without hardware TPM</li> <li>• (Factory Option) Area Fingerprint</li> <li>• (Factory Option) TPM 2.0</li> </ul>
<b>Others Design</b>	<ul style="list-style-type: none"> <li>• Metal (A/C/D)</li> <li>• Shipping Mode</li> <li>• FlexiCharger</li> <li>• Virtual Reality ready</li> <li>• NVIDIA® G-SYNC™ Technology at dGPU mode</li> <li>• Support Windows®10 Cortana with Voice</li> <li>• Intel® Optane™ Technology (For Intel core processor family)</li> <li>• Windows® Mixed Reality Compatible</li> <li>• (Factory Option) USB drive</li> </ul>
<b>OS Support</b>	• Windows®10 RS3 (64-bit)
<b>Certificate</b>	<ul style="list-style-type: none"> <li>• Windows®10 RS3 (64-bit) Logo</li> <li>• HDMI™ Logo</li> </ul>
<b>Dimension</b>	• 418.5(W) x 287(D) x 24.9(H)mm
<b>Weight</b>	• 3.0kg, Including Barebone and 66WH Battery

2018/04 Version

Remark:  
 \*Battery life may vary depending on applications and configuration.  
 \*Weight tolerance is +/- 5%.  
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