

## ACE MUSTANG W670R BUYING GUIDE WITH UPGRADES

DESCRIPTION	
17.3" FHD/144Hz/WVA/72% NTSC/Matte Display with NVIDIA G-Sync Technology , i5-9600K ( 3.7 GHz ) , NVIDIA GeForce RTX 2060 w/6GB GDDR6, 16GB DDR4 2400 SDRAM (1x16G) , Western Digital Blue SN500 M.2 500GB NVMe SSD, Integrated 2M FHD Digital Video Camera, Finger Print Reader, Killer Dual Band Wireless -AC N1550 M.2 AC + BT Combo Card, Killer E2400 Ethernet , Full Color Backlit Keyboard and MS Windows 10 Home, 3 Year Warranty	\$2,440.00

- \*\* 17.3" FHD/144Hz/WVA/72% NTSC/Matte/G-Sync ==> 17.3" 4K QFHD/Matte/G-Sync +\$235
- \*\* Killer Dual Band Wireless-AC N1550 M.2 AC + BT Combo Card ==> Intel Dual Band Wireless -AC 9260 M.2 AC + BT Combo Card +\$25
- \*\* NVIDIA GeForce RTX 2060 w/6GB GDDR6 ==> NVIDIA GeForce RTX 2070 w/8GB GDDR6 +\$325  
 ==> NVIDIA GeForce RTX 2080 w/8GB GDDR6 +\$840

SYSTEM CPU UPGRADE		M.2 SSD ( Slot 1 ) UPGRADE		HARD DISK DRIVE UPGRADE	
CORE i5-9600K 3.7 GHz	Standard	WD Blue M.2 1TB	\$ 97.00	w/o HDD	Standard
CORE i7-9700K 3.6 GHz	\$ 185.00	WD Blue M.2 2TB	\$ 227.00	1TB (7200rpm)	\$ 78.00
CORE i9-9900K 3.6 GHz	\$ 255.00	Samsung 860EVO M.2 1TB	\$ 123.00	1TB (FireCuda SSHD)	\$ 87.00
		Samsung 860EVO M.2 2TB	\$ 308.00	2TB (FireCuda SSHD)	\$ 128.00
SYSTEM MEMORY UPGRADE		WD Blue SN500 NVMe 500GB	Standard	WD Blue SSD 250GB	\$ 65.00
16GB DDR4 2400 (1x16GB)	Standard	WD Black SN750 NVMe 250GB	\$ 9.00	WD Blue SSD 500GB	\$ 96.00
16GB DDR4 2400 (2x8GB)	\$ 29.00	WD Black SN750 NVMe 500GB	\$ 69.00	WD Blue SSD 1TB	\$ 164.00
32GB DDR4 2400 (2x16GB)	\$ 123.00	WD Black SN750 NVMe 1TB	\$ 186.00	WD Blue SSD 2TB	\$ 303.00
64GB DDR4 2400 (4x16GB)	\$ 330.00	Samsung 970Evo Plus NVMe 250GB	\$ 29.00	Samsung 860 Evo SSD 4TB	\$ 727.00
16GB DDR4 3000 (1x16GB)	\$ 65.00	Samsung 970Evo Plus NVMe 500GB	\$ 78.00	Samsung 860 Pro SSD 1TB	\$ 339.00
32GB DDR4 3000 (2x16GB)	\$ 173.00	Samsung 970Evo Plus NVMe 1TB	\$ 218.00	Samsung 860 Pro SSD 2TB	\$ 591.00
64GB DDR4 3000 (4x16GB)	\$ 616.00	Samsung 970Evo Plus NVMe 2TB	\$ 533.00	Samsung 860 Pro SSD 4TB	\$ 1,100.00
128GB DDR4 2666 (4 x 32GB)	\$ 745.00	Samsung 970Pro NVMe 512GB	\$ 129.00		
		Samsung 970Pro NVMe 1TB	\$ 327.00		
OS UPGRADE OPTIONS  GSA/SEWP V		OS UPGRADE OPTIONS  GSA/SEWP V		Screen Upgrades  GSA/SEWP V	
Win 10 Home*	Standard	Win 10 Home*	Standard	30 Days No Dead Pixel	\$ 45.00
Win 10 Pro*	\$ 50.00	Win 10 Pro*	\$ 30.00	Screen Calibration (OS Req)	\$ 45.00
Win 10 USB Recovery	\$ 30.00	Win 10 USB Recovery	\$ 21.00	90 Days no dead pixel	\$ 85.00

- \* listed prices are in ADDITION to the system price. These are not stand alone prices.
- \* 4 HDD capable (coexisting of 2x M.2 SSD (2x PCIe (Gen3 X4) or SATA3 & 2x 9.5mm 2.5" SSD/HDD))
- \* RAID: RAID 0/1 capability with matching SATA or NVMe, RAID Capable drives only, (WD Black Drives is not RAID Capable).
- \* No Recovery Media included for windows 10.

ITEM	DESCRIPTION	GSA/SEWP	RETAIL
ACA-9176	NP9176 330W AC ADAPTER WITH POWER CORD	\$ 155.00	\$ 195.00
BAT-9176	NP9176 SMART Lithium-Ion BATTERY PACK (8 CELLS 82 WH)	\$ 129.00	\$ 175.00

\*\* ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE \*\*

# ACE MUSTANG W670R DETAILED SPECIFICATIONS

<b>Special Feature(s):</b>	Intel Z370 Chipset; Coffee Lake-S LGA1151 CPUs; supports MXM 3.1 GTX 1080, 1070, 1060 and RTX 2080, 2070, 2060
<b>Main Chipset:</b>	Intel Z370 (Coffee Lake)
<b>Processor:</b>	Socket LGA 1151 Coffee Lake: up to i9-9900K; 8C/16T
<b>Video / GPU:</b>	- one MXM 3.1 slot; up to 190W GPU - NVIDIA GeForce: GTX 1080, 1070, 1060 - NVIDIA GeForce: RTX 2080, 2070, 2060 - NVIDIA Quadro: P5000, P4000, P3000
<b>Built-in PC Camera:</b>	Built-in 2M FHD
<b>LCD Size:</b>	17.3in / 43.9cm
<b>LCD Specifications:</b>	17.3" FHD, QHD; UHD; 60Hz/120Hz/144Hz; eDP Supports 4 active displays @ 4K 60Hz Optional G-Sync
<b>Memory:</b>	Four 260-pin, 1.2V, SODIMM sockets DDR4-2400/2666/3000; up to 128GB
<b>Total Storage:</b>	up to 4 physical drives: - 2x M.2 2280 SSD PCIe Gen3 2x/4x/SATA RAID0/1 - 2x 2.5" 9.5mm/7mm HDD/SSD/SHDD RAID 0/1 Supports Intel Optane technology via M.2 slot
<b>Optical Drive:</b>	External USB based DVD-RW or Blu Ray Burner
<b>Card Reader:</b>	6-in-1 Push-Push Card Reader MMC/RSMHC SD/mini SD/SDHC/SDXC UHS-II (SD 4.0)
<b>Audio Architecture:</b>	High Definition Audio S/PDIF Digital Output Built in array microphone Built in two 2W speakers (Foster) and subwoofer Sound Blaster X Pro-Gaming 360° ESS SABRE HiFi DAC for high res headphone output
<b>LAN/WLAN/Bluetooth:</b>	- WLAN / Bluetooth; M.2 2230 slot - 1Gigabit Ethernet RJ-45 LAN on-board; Killer E2500
<b>Security:</b>	Kensington Lock  Fingerprint TPM 2.0 on-board (Infineon SLB9665-TCG)
<b>Internal cards / # of slots/Type:</b>	Three M.2 slots -1st: WLAN M.2 2230 Card with PCIe x2 and USB -2nd for SSD M.2 2280 Card with SATA / PCIe x2/x4 -3rd for SSD M.2 2280 Card with SATA / PCIe x2/x4
<b>I/O Ports:</b>	1 x USB 3.1 type C / Thunderbolt 3 / DP 1.3 / HDMI 2.0 4 x USB 3.0 (1x USB powered) 2 x miniDP 1.3 1 x HDMI 2.0 output 1 x 2-in-1 Audio jack (Headphone / S/PDIF optical output) 1 x Microphone-in 1 x Lineout 1 x Line-in 1 x RJ-45 LAN 1 x DC-in
<b>Internal Keyboard:</b>	Backlit 7-colour full size keyboard with numeric pad TouchPad with multi-gesture and scrolling W/A/S/D Gaming key
<b>AC Adapter:</b>	330W 100-240V 50-60Hz Auto-switching (worldwide) optional 660W (2x 330W) for Extreme Performance
<b>Battery:</b>	8cells Smart Li-Ion; 89W FexiCharger (via BIOS)
<b>Weight:</b>	3.9kg / 8.58lbs
<b>Dimensions WxDxH:</b>	418x295x39.9mm / 16.72x11.81x1.6-inch
<b>Thickness:</b>	1.6in / 39.9mm