Note The specifications are subject to change without notice. Rote The specifications are subject to change without notice. Rote Societ LGA/200 for 11 th cen intel® Core® processors 8.10 th cen intel® Core®, Pentium® Gold and Celeron® Processors Supports Intel® 1 furbs Bost Max Technology 30** - Refer to waveaucome for CPU support list Place 1 furbs Bost Max Technology 30 support depends on the CPU types. Chipat Intel® 2006 (Chipate Society Max Technology 30 support depends on the CPU types. Chipate Intel® Core® (Chipate Society Max Technology 30 support depends on the CPU types. Statistics (Chipate Society Max Technology 30 support depends on the CPU types. Statistics (Chipate Society Max Technology 30 support depends on the CPU types. Statistics (Chipate Society Max Technology 30 support depends on the CPU types. Statistics (Chipate Society Max Technology 30 support depends (Chipate Society Max Technology 30 support Society Max Technology 30 subport Society Max Technology 30 subport Society 30 section Society 30	:0
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#**Only Intel® 11th Core™ processors support DisplayPort 1.4 with max. resolution of 5120 x 2880 @60Hz, others will only support DisplayPort 1.4 with max. resolution of 4096 x 2304 @60Hz. Please refer to www.intel.com for any updates ***Only Intel® 11® Core™ processors, support HDM® 20 with max. resolution of 4K@60Hz, others would only support HDMI™ 1.4 with max. resolution of 4K@30Hz. Please refer to www.intel.com for any update. ***Only Intel® 11® Core™ processors support Depends on processors or graphic cards' resolution. Intel® 11® 10™ Gore Processors Support PCle 4.0 x16 - Intel® 11™ core™ processors support PCle 4.0 x16 - Intel® 11™ core™ processors support PCle 4.0 x16 - Intel® 11™ core™ processors support PCle 4.0 x16 - Intel® 11™ core™ processors support PCle 4.0 x16 - Intel® 11™ Core™ processors support PCle 4.0 x16 - Intel® 11™ Core™ processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 11™ Core™ processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 11™ Core™ processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 2590 Chipset M.2.1 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)**** M.2.2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)**** M.2.3 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)**** M.2.3 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)**** M.2.2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)**** M.2.3 shares bandwidth with SATA66_C. When M.2.2 runs SATA mode, SATA66_C. will be disabled. Ethernet	
of 4096 x 2304 @60Hz. Please refer to www.intel.com for any updates *** Only Intel® 11 th Core™ processors support HDMI™ 2.0 with max. resolution of 4K@60Hz, others would only support HDMI™ 1.4 with max. resolution of 4K@30Hz. Please refer t *** VCA resolution support depends on processors' or graphic cards' resolution. Intel® 11 th R 10 th Gen Processors 3 x PCle 4.0/3.0 x16 slots' -Intel® 11 th Core™ processors support PCle 4.0 x16 -Intel® 11 th Core™ processors support PCle 3.0 x16 Intel® 11 th Core™ processors support PCle 3.0 x16 Intel® 2590 Chipset 1 x PCle 3.0 x4 slot **Supports PCle bandwidth bifurcation for RAID on CPU function. Total supports 3 x Mz_ slots and 6 x SATA 6Gb/s ports Intel® 11 th Core™ processors M2_1 slot (Key M), type 2242/2260/2280/22110 - Only Intel® 11th Core™ processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 2590 Chipset M2_2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)*** Storage Storage M2_3 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)*** 6 x SATA 6Gb/s ports *Raid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots. *To enable Intel® Optnae* "Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. *** M2_2 shares bandwidth with SATA6G_2. When M2_2 runs SATA mode, SATA6G_5 will be disabled. Ethernet 1 x Intel® 125-V 25Gb Ethernet Rear USB (Total 9 ports) 1 x USB 3 2 Gen 1 x Sport (1 x USB Type-C*) 4 x USB 3 2 Gen 2 port (1 x USB Type-C*) 1 x USB 3 2 Gen 1 connector (supports 2015 Type-C*) 1 x USB 3 2 Gen 1 connector (supports 2015 Type-C*) 1 x USB 3 2 Gen 1 connector (supports 2015 Type-C*) 1 x USB 3 2 Gen 1 connector (supports 2015 Type-C*) 1 x USB 3 2 Gen 1 connector (supports 2015 Type-C*) 1 x USB 3 2 Gen 1 connector (supports 2015 Type-C*) 1 x USB 3 2 Gen 1 connector (supports 2015	
www.intel.com for any update. **** VGA resolution support depends on processors' or graphic cards' resolution. Intel® 11th® 2 10th Gene Processors 3 x PCIe. 4(0,73) x 16 slots* - Intel® 11th Core™ processors support PCIe 4.0 x 16 - Intel® 10th Processors support PCIe 3.0 x 16 - Intel® 2590 Chipset 1 x PCIe 3.0 x 45 oth * Supports PCIe bandwidth bifurcation for RAID on CPU function. Total supports 3 x M.2 slots and 6 x SATA 66b/s ports Intel® 11th Gen Processors M.2.1 slot (key M), type 2242/2260/2280/22110 - Only Intel® 11th Core™ processors support PCIe 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 2590 Chipset M.2.2 slot (key M), type 2242/2260/2280/22110 (supports PCIe 3.0 x 4 & SATA modes)*** **Storage* **Storage* **Storage* **Storage* **Storage* **To enable Intel® Cptane™ Memory (Hybrid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots with Intel® Rapid Storage Technology. ***********************************	
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a x PCle 4.0/3.0 x16 slots* - Intel® 11 th Core® processors support PCle 4.0 x16 Intel® 2590 Chipset 1 x PCle 3.0 x4 slot *Supports PCle bandwidth bifurcation for RAID on CPU function. Total supports 3 x M.2 slots and 6 x SATA 66b/s ports Intel® 11th Core™ processors M.2 1 slot (Key M), type 2242/2260/2280/22110 - Only Intel® 11th Core™ processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 2590 Chipset M.2.2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)*** Storage Storage Storage Storage A.2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)*** *Raid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots. *To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2.2 shares bandwidth with SATA6G_2. When M.2.2 runs SATA mode, SATA6G_2 will be disabled. ***** M.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. ****** M.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. ***** N.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. ***** N.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. ***** N.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. ***** N.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. ****** N.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. ****** N.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. ***********************************	3rd
- Intel® 11 th Core™ processors support PCle 4.0 x16 - Intel® 10 th processors support PCle 3.0 x16 Intel® 2590 Chipset 1 x PCle 3.0 x4 slot * Supports PCle bandwidth bifurcation for RAID on CPU function. Total supports 3 x M.2 slots and 6 x SATA 6Gb/s ports Intel® 11 th Gen Processors M.2.1 slot (key M), type 2242/2260/2280/22110 - Only Intel® 11 th Gen Processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 2590 Chipset M.2.2 slot (key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)*** M.2.3 slot (key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)*** 6 x SATA 6Gb/s ports *Baid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, **To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2.2 shares bandwidth with SATA6G.2. When M.2.2 runs SATA mode, SATA6G.2 will be disabled. ***** M.2.3 shares bandwidth with SATA6G.6. When M.2.6 runs SATA mode, SATA6G.6 will be disabled. ***** N.2.3 shares bandwidth with SATA6G.6. When M.2.6 runs SATA mode, SATA6G.6 will be disabled. ***** N.2.3 shares bandwidth with SATA6G.6. When M.2.6 runs SATA mode, SATA6G.6 will be disabled. ***** N.2.3 shares bandwidth with SATA6G.6. When M.2.6 runs SATA mode, SATA6G.6 will be disabled. ****** N.2.3 shares bandwidth with SATA6G.6. When M.2.6 runs SATA mode, SATA6G.6 will be disabled. ****** N.2.3 shares bandwidth with SATA6G.6. When M.2.6 runs SATA mode, SATA6G.6 will be disabled. ******** N.2.3 shares bandwidth with SATA6G.6. When M.2.6 runs SATA mode, SATA6G.6 will be disabled. ***********************************	3rd
Intel® Z590 Chipset 1 x PCle 3.0 x4 slot * Supports PCle bandwidth bifurcation for RAID on CPU function. Total supports 3 x M.2 slots and 6 x SATA 66b/s ports Intel® 11 th Gen Processors M.2.1 slot (Key M), type 2242/2260/2280/22110 - Only Intel® 1Th Core® processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® Z590 Chipset M.2.2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)**** Storage Storage Storage Storage Storage M.2.3 slot (Key M), type 2242/2260/22110 (supports PCle 3.0 x4 & SATA modes)**** 6 x SATA 66b/s ports *Raid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots. *** To enable Intel® Optane® Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2.2 shares bandwidth with SATA66_2. When M.2.2 runs SATA mode, SATA6G_2 will be disabled. ***** M.2.3 shares bandwidth with SATA66_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. Ethernet Ix Intel® 1255-V.2 SGB Ethernet Rear USB (Total 9 ports) 1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®) 4 x USB 2.0 ports (4 x Type-A) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	3rd
1 x PCle 3.0 x4 slot * Supports PCle bandwidth bifurcation for RAID on CPU function. Total supports 3 x M.2 slots and 6 x SATA 6Gb/s ports Intel®11th Gen Processors M.2, 1 slot (Key M), type 2242/2260/2280/22110 - Only Intel® 11th Core™ processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 2590 Chipset M.2, 2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)**** M.2, 3 slot (Key M), type 2242/2260/22110 (supports PCle 3.0 x4 & SATA modes)**** 6 x SATA 6Gb/s ports *Raid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots. **To enable Intel® Optane® Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2, 2 shares bandwidth with SATA6G, 2. When M.2, 2 runs SATA mode, SATA6G, 2 will be disabled. ***** M.2, 3 shares bandwidth with SATA6G, 6. When M.2, 6 runs SATA mode, SATA6G, 6 will be disabled. ****** Rear USB (Total 9 ports) 1 x USB 3.2 Gen 2 ports (1 x USB Type-C*) 4 x USB 2.0 ports (4 x Type-A, 1 x Type-C*) 4 x USB 2.2 Gen 2 ports (3 x Type-A, 1 x Type-C*) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	3rd
* Supports PCle bandwidth bifurcation for RAID on CPU function. Total supports 3 x M.2 slots and 6 x SATA 6Gb/s ports Intel®11 th Gen Processors M.2.1 slot (Key M), type 2242/2260/2280/22110 - Only Intel® 11th Core™ processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 2590 Chipset M.2.2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)**** M.2.3 slot (Key M), type 2242/2260/22110 (supports PCle 3.0 x4 & SATA modes)*** 6 x SATA 6Gb/s ports *Raid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots. ** To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2.2 shares bandwidth with SATA6G_2. When M.2.2 runs SATA mode, SATA6G_2 will be disabled. Ethernet 1 x Intel® 1225-V 2.5Gb Ethernet Rear USB (Total 9 ports) 1 x USB 3.2 Gen 2 x22 port (1 x USB Type-C*) 4 x USB 3.2 Gen 2 ports (3 x Type-A.) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 ports (1 x Type-A.) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C*) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	3rd
Intel®11 th Gen Processors M.2_1 slot (Key M), type 2242/2260/2280/22110 - Only Intel® 17th Core™ processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 2590 Chipset M.2_2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)*** M.2_3 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)*** 6 x SATA 6Gb/s ports *Raid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots. *** To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2_2 shares bandwidth with SATA6G_2. When M.2_2 runs SATA mode, SATA6G_2 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ****** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ****** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ****** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ******* M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***********************************	3rd
M.2_1 slot (Key M), type 2242/2260/2280/22110 - Only Intel® 11th Core™ processors support PCle 4.0 x4 mode, this slot will be disabled for other CPUs Intel® 2590 Chipset M.2_2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)*** Storage M.2_3 slot (Key M), type 2242/2260/22110 (supports PCle 3.0 x4 & SATA modes)*** 6 x SATA 6Gb/s ports *Raid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots. **To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2_2 shares bandwidth with SATA6G_2. When M.2_2 runs SATA mode, SATA6G_2 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ****** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ****** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ****** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ****** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ******* M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***********************************	3rd
- Only Intel® 11th Core™ processors support PCIe 4.0 x4 mode, this slot will be disabled for other CPUs Intel® Z590 Chipset M.2_2 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 3.0 x4 & SATA modes)**** M.2_3 slot (Key M), type 2242/2260/22110 (supports PCIe 3.0 x4 & SATA modes)**** 6 x SATA 6Gb/s ports *Raid function for PCIe mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots. *** To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2_2 shares bandwidth with SATA6G_2. When M.2_2 runs SATA mode, SATA6G_2 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. Ethernet 1 x Intel® 1225-V 2.5Gb Ethernet Rear USB (Total 9 ports) 1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®) 4 x USB 3.2 Gen 2x2 port (1 x USB Type-C®) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C®) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C®) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C®)	3rd
M.2_2 slot (Key M), type 2242/2260/2280/22110 (supports PCle 3.0 x4 & SATA modes)*** M.2_3 slot (Key M), type 2242/2260/22110 (supports PCle 3.0 x4 & SATA modes)*** 6 x SATA 6Gb/s ports *Raid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots. **To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2_2 shares bandwidth with SATA6G_2. When M.2_2 runs SATA mode, SATA6G_2 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. **** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. **** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. **** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2_	3rd
Storage M.2.3 slot (Key M), type 2242/2260/22110 (supports PCle 3.0 x4 & SATA modes)**** 6 x SATA 6Gb/s ports *Raid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots. **To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2.2 shares bandwidth with SATA6G_2. When M.2.2 runs SATA mode, SATA6G_2 will be disabled. ***** M.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. Ethernet 1 x Intel® 1225-V 2.5Gb Ethernet Rear USB (Total 9 ports) 1 x USB 3.2 Gen 2x 2 port (1 x USB Type-C®) 4 x USB 3.2 Gen 2 ports (3 x Type-A, 1 x Type-C®) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C®) 1 x USB 3.2 Gen 1 connector (suppports uSB Type-C®) 1 x USB 3.2 Gen 1 connector (suppports uSB Type-C®)	3rd
*Raid function for PCle mode SSD in Intel® Rapid Storage Technology is available with either 1. Intel® SSDs installed in both CPU-attached and PCH-attached slots, or 2. any other party SSDs installed in PCH-attached slots. *** To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M.2.2 shares bandwidth with SATA6G_2. When M.2.2 runs SATA mode, SATA6G_2 will be disabled. ***** M.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. ***** M.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. ***** To relate \$225-V_2.5Gb\$ Ethernet ***** Rear USB (Total 9 ports) 1 x USB 3.2 Gen 2 x2 port (1 x USB Type-C*) 4 x USB 3.2 Gen 2 ports (3 x Type-A, 1 x Type-C*) 4 x USB 3.2 Gen 2 ports (4 x Type-A) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C*) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C*)	3rd
party SSDs installed in PCH-attached slots. ** To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. *** M.2.2 shares bandwidth with SATA6G_2. When M.2.2 runs SATA mode, SATA6G_2 will be disabled. ***** M.2.3 shares bandwidth with SATA6G_6. When M.2.6 runs SATA mode, SATA6G_6 will be disabled. Ethernet 1 x Intel® 1225-V 2-5Gb Ethernet Rear USB (Total 9 ports) 1 x USB 3.2 Gen 2x2 port (1 x USB Type-C*) 4 x USB 3.2 Gen 2 ports (3 x Type-A, 1 x Type-C*) 4 x USB 2.0 ports (4 x Type-A) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C*) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C*) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	3rd
*** To enable Intel® Optane™ Memory (Hybrid Storage device), it must be installed in PCH-attached slots with Intel® Rapid Storage Technology. **** M2_2 shares bandwidth with SATA6G_2. When M2_2 runs SATA mode, SATA6G_2 will be disabled. ***** M2_3 shares bandwidth with SATA6G_6. When M2_6 runs SATA mode, SATA6G_6 will be disabled. Ethernet 1 x Intel® 1225-V 2.5Gb Ethernet Rear USB (Total 9 ports) 1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®) 4 x USB 3.2 Gen 2 ports (3 x Type-A, 1 x Type-C®) 4 x USB 3.2 Gen 2 ports (4 x Type-A) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C®) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C®) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	
**** M.2.3 shares bandwidth with SATA6G_6. When M.2_6 runs SATA mode, SATA6G_6 will be disabled. Ethernet 1 x Intel® 1225-V 2.5Gb Ethernet Rear USB (Total 9 ports) 1 x USB 3.2 Gen 2x2 port (1 x USB Type-C®) 4 x USB 3.2 Gen 2 xop port (1 x Type-A, 1 x Type-C®) 4 x USB 2.0 ports (4 x Type-A, 1 x Type-C®) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C®) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	
### Tax	
1 x USB 3.2 Gen 2x2 port (1 x USB Type-C°) 4 x USB 3.2 Gen 2 ports (3 x Type-A, 1 x Type-C°) 4 x USB 2.0 ports (4 x Type-A, 1 x Type-C°) 4 x USB 2.0 ports (4 x Type-A) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C°) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	
4 x USB 3.2 Gen 2 ports (3 x Type-A, 1 x Type-C*) 4 x USB 2.0 ports (4 x Type-A) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C*) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	
4 x USB 2.0 ports (4 x Type-A) Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C*) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	
Front USB (Total 7 ports) 1 x USB 3.2 Gen 1 connector (suppports USB Type-C*) 1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	
1 x USB 3.2 Gen 1 header supports additional 2 USB 3.2 Gen 1 ports	
2 x USB 2.0 headers support additional 4 USB 2.0 ports	
D. N. L. GARRANTE C	
Realtek S1220A 7.1 Surround Sound High Definition Audio CODEC* - Impedance sense for front and rear headphone outputs	
- Internal audio Amplifier to enhance the highest quality sound for headphone and speakers	
- Supports: Jack-detection, Multi-streaming, Front Panel Jack-retasking - High quality 120 dB SNR stereo playback output and 113 dB SNR recording input (Line-in)	
- mgn quanty rez us sins steep pisysteet output and 113 us sins recording input (Line-III) - Supports up to 32-Bit/192 kHz playback*	
Audio Features: - Power pre-regulator reduces power input poise to ensure consistent performance	
Audio - Power pre-regulator reduces power input noise to ensure consistent performance - Rear optical S/PDIF out port	
- Premium Japanese audio capacitors	
- Audio Shielding - Dedicated audio PCB layers	
- Audio cover	
- Unique de-pop circuit * Due to limitations in HDA bandwidth, 32-Bit/192kHz is not supported for 8-Channel audio.	
1 x USB 3.2 Gen 2x2 port (1 x USB Type-C*)	
4 x USB 3.2 Gen 2 ports (3 x Type-A, 1 x Type-C*)	
4 x USB 2.0 ports (4 x Type-A) 1 x DisplayPort 1 x DisplayPort	
1x HDMI™ port	
1 x Intel® 1225-V 2.5Gb Ethernet port 5 x Audio jacks	
1 x Optical S/PDIF out port	
Fan and Cooling related 1 x 4-pin CPU Fan header	
1 x 4-pin CPU OPT Fan header	
1 x 4-pin AIO Pump header	
3 x 4-pin Chassis Fan headers 1 x 4-pin VRM_HS Fan header	
1x W_PUMP+ header	
Power related 1 x 24-pin Main Power connector	
1 x 8-pin +12V Power connector	
1 x 4-pin +12V Power connector	
Storage related 3 x M.2 slots (Key M)	
6 x SATA 6Gb/s ports	
Internal I/O Connectors USB	
1 x USB 3.2 Gen 1 connector (supports USB Type-C*) 1 x USB 3.2 Gen 1 headers supports additional 2 USB 3.2 Gen 1 ports	
2 x USB 2.0 headers support additional 4 USB 2.0 ports	

	Miscellaneous
	3 x AURA Addressable Gen 2 headers
	1 x AURA RGB headers
	1 x Clear CMOS header 1 x COM Port header
	1 x Front Panel Audio header (AAFP)
	1x CPU Over Voltage jumper
	1 x Power button
	1x SPI TPM header (14-1pin)
	1 x 20-3 pin System Panel header with Chassis intrude function
	1 x Thermal Sensor header
	1 x Thunderbolt™ header
	ASUS 5X PROTECTION III
	- ASUS DIGI+ VRM (- Digital power design with Dr. MOS)
	- ASUS Enhanced DRAM Overcurrent Protection
	- ASUS ESD Guards
	- ASUS LANGuard
	- ASUS Overvoltage Protection
	- ASUS Stainless-Steel Back I/O
	ASUS Q-Design:
	- M2 Q-Latch
Special Features	- ASUS Q-Connector - ASUS Q-DIMM
	- ASUS Q-LIMM - ASUS Q-LIMM (yellow), VGA (white), Boot Device (yellow-green))
	- ASUS Q-Slot - ASUS Q-Slot
	ASUS Thermal Solution:
	-Aluminum M.2 Heatsink
	- Flexible M.2 heatsink
	ASUS EZ DIY:
	- Procool
	- Pre-mounted I/O shield
	- ASUS SafeSlot
	ASUS Exclusive Software:
	Armoury Crate:
	- Aura Creator
	- Aura Sync
	- Two-Way Al Noise Cancelation
	Al Suite 3
	- 5-way Optimization with AI Overclocking TPU
	I FPU
	Ero Digi+ VRM
	Fan Xpert 4
	Turbo app
	- EZ update
Software Features	Al Charger
	ASUS CPU-Z
	ASUS Turbo LAN
	MyAsus
	DTSX® Ultra
	UEFI BIOS:
	Al Overclocking Guide
	ASUS EZ DIY:
	- ASUS CrashFree BIOS 3
	- ASUS EZ Flash 3
	- ASUS UEFI BIOS EZ Mode
	- EZ Tuning Wizard FlexKey
BIOS	rienxey 256 Mb Flash ROM, UEFI AMI BIOS
Manageability	WOL by PME, PXE
· · · · · ·	Cables
	3 x SATA 6Gb/s cables
	Miscellaneous
	2 x M.2 Rubber Packages
Accessories	1 x Q-connector
	Installation Media
	1 x Support DVD
	Documentation
0	1 x User manual
Operating System	Windows® 10 64-bit ATX Form Factor
Form Factor	712 inch x 96 inch (30.5 cm x 24.4 cm)
·	A CONTRACTOR OF THE PROPERTY

Dimension		
Product (mm)_ L*W*H	12 inch x 9.6 inch (30.5 cm x 24.4 cm)	
Color Box (mm)_ L*W*H	B Type - 33.8 x 27.3 x 6.8 cm	
Weight		
Motherboard only	1.132 KG	
Full package (1 Color Box)	1.901 KG	