

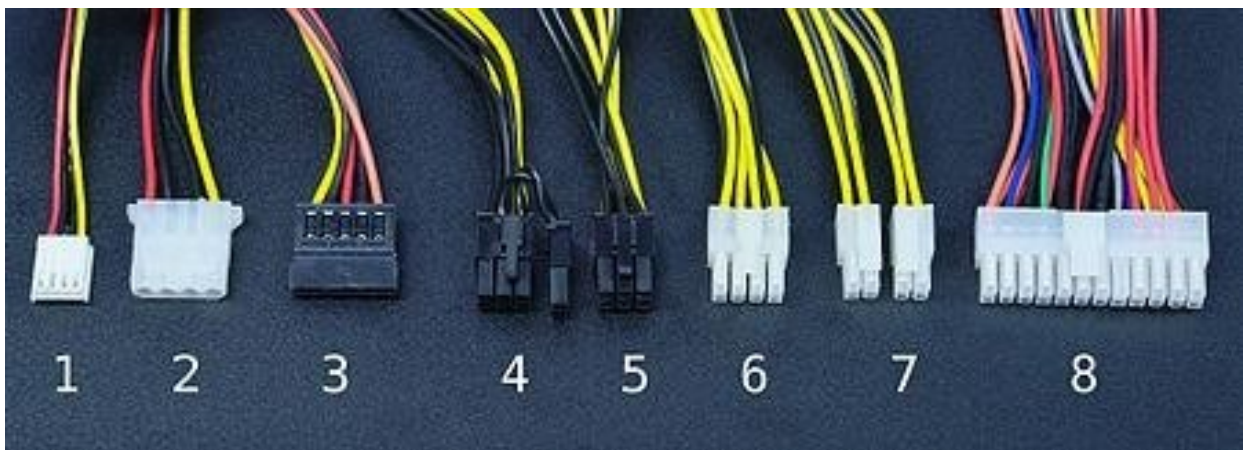


ACTIVITAT 2

UD1 – SISTEMES INFORMÀTICS. MAQUINARI I PROGRAMARI

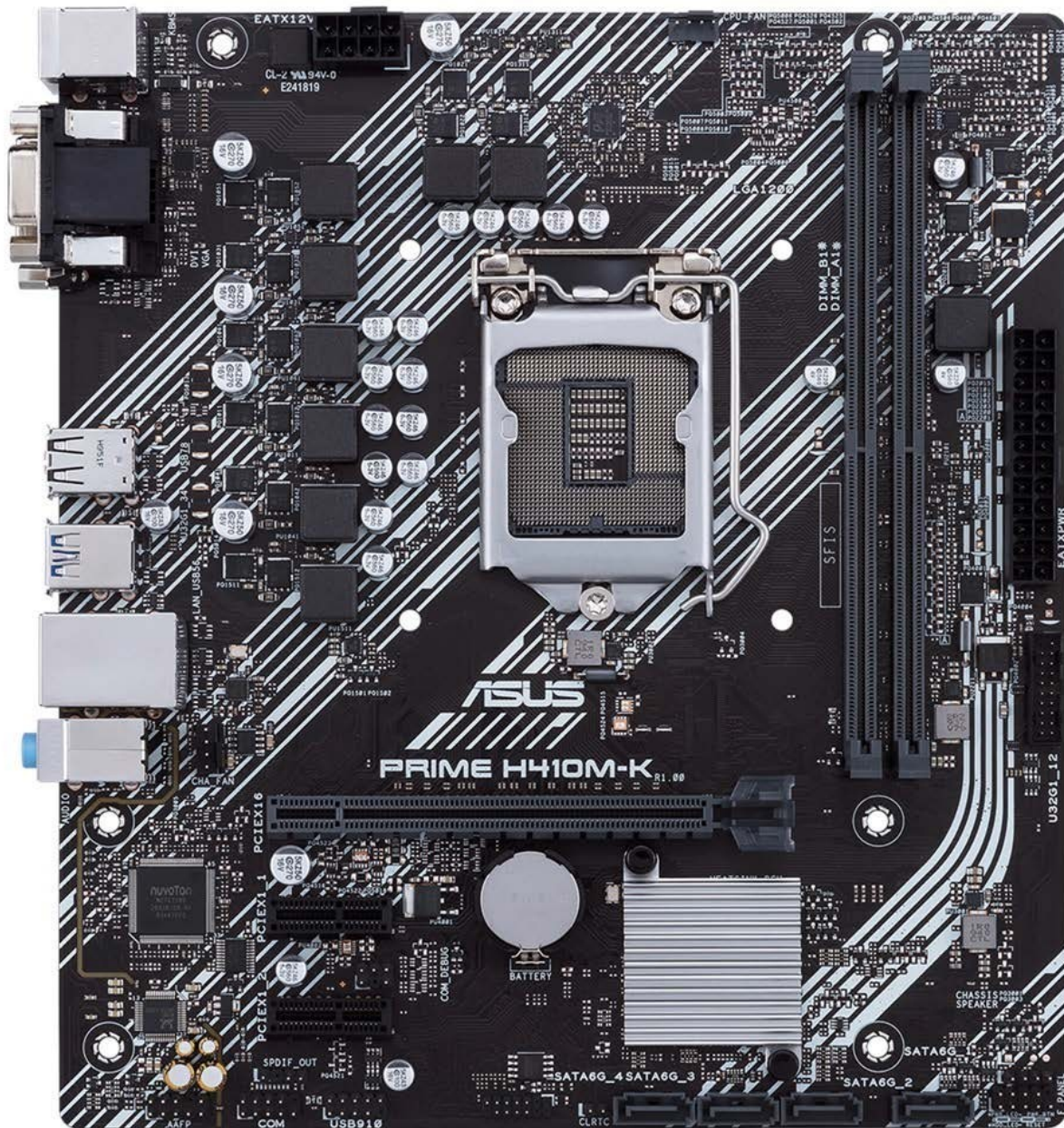
ACTIVITATS CAIXES, FONT ALIMENTACIÓ I PLAQUES BASE

1. Cerca en botigues d'informàtica d'Internet dues caixes diferents i indica les seues diferències.
2. Un usuari vol comprar-se una torre o semitorre per a muntar-se un ordinador, però té un pressupost de 40 €. Buscar dues caixes dins d'aqueix pressupost i indica les seues característiques principals i perquè has triat aquestes.
3. Un usuari vol comprar-se una torre o semitorre per a muntar-se un ordinador i té un pressupost de 140 € per a gastar-se només en la caixa. Buscar dues caixes dins d'aqueix pressupost i indicar les seues característiques principals i perquè has triat aquestes.
4. Anomena els diferents tipus de connectors de la font d'alimentació amb els seus respectius noms.

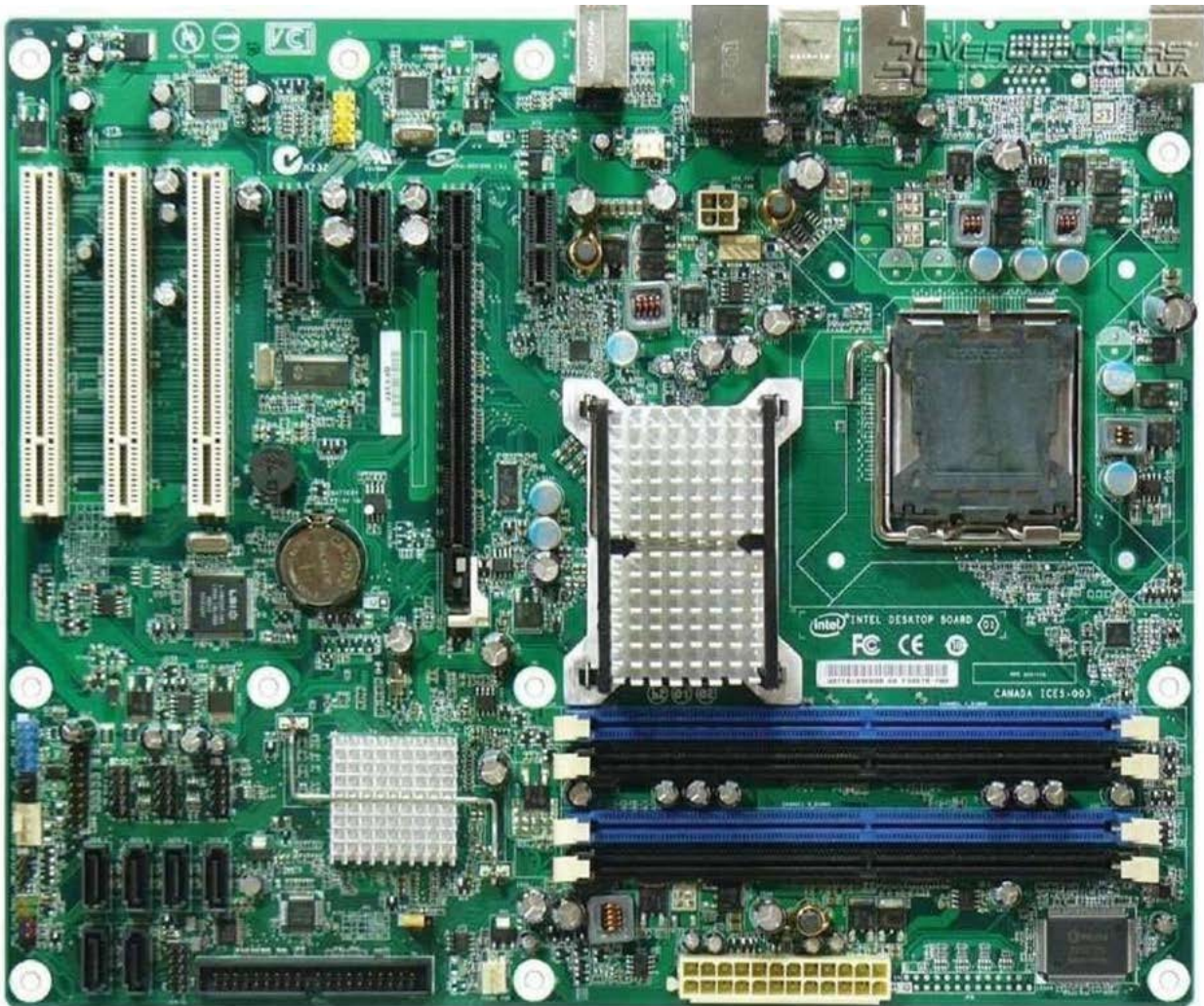


Nom								
numero	1	2	3	4	5	6	7	8

5. Quin o quines són les diferències de les fonts de poder AT i ATX?

6. Nomena les parts principals de les següents plaques base:**1**

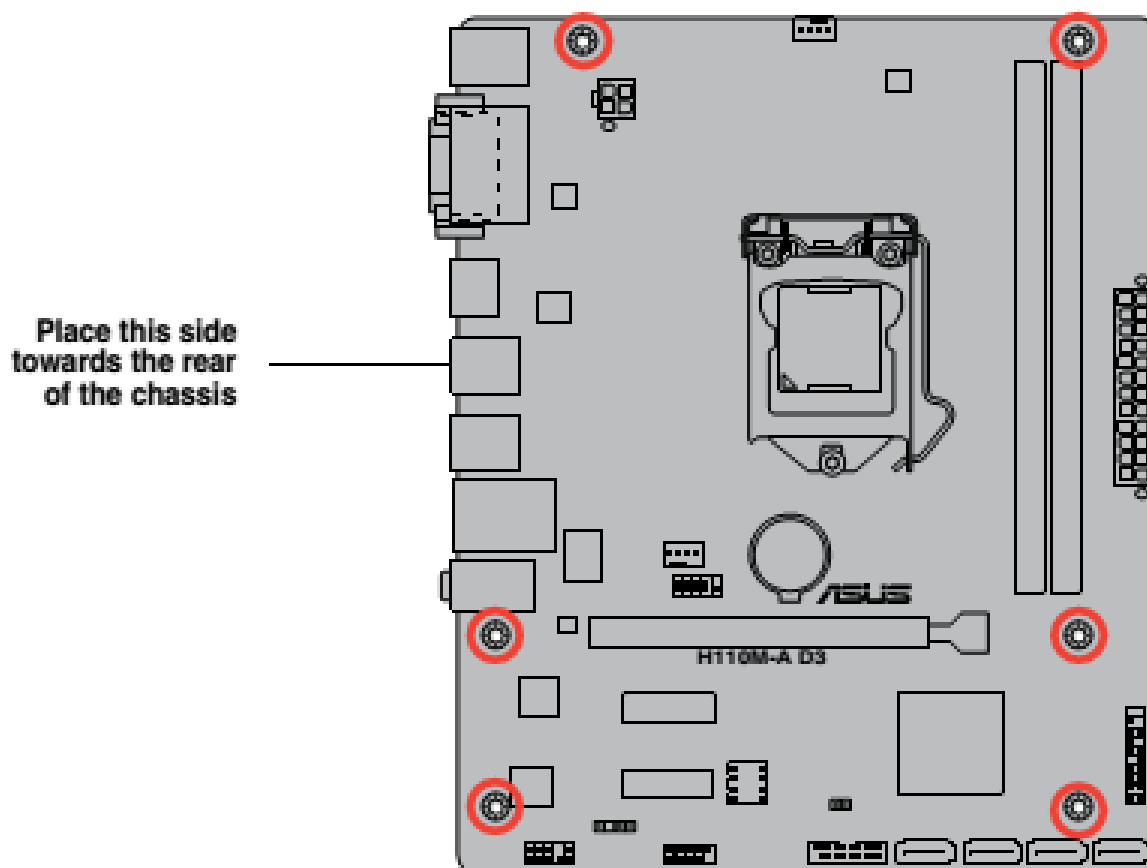
2



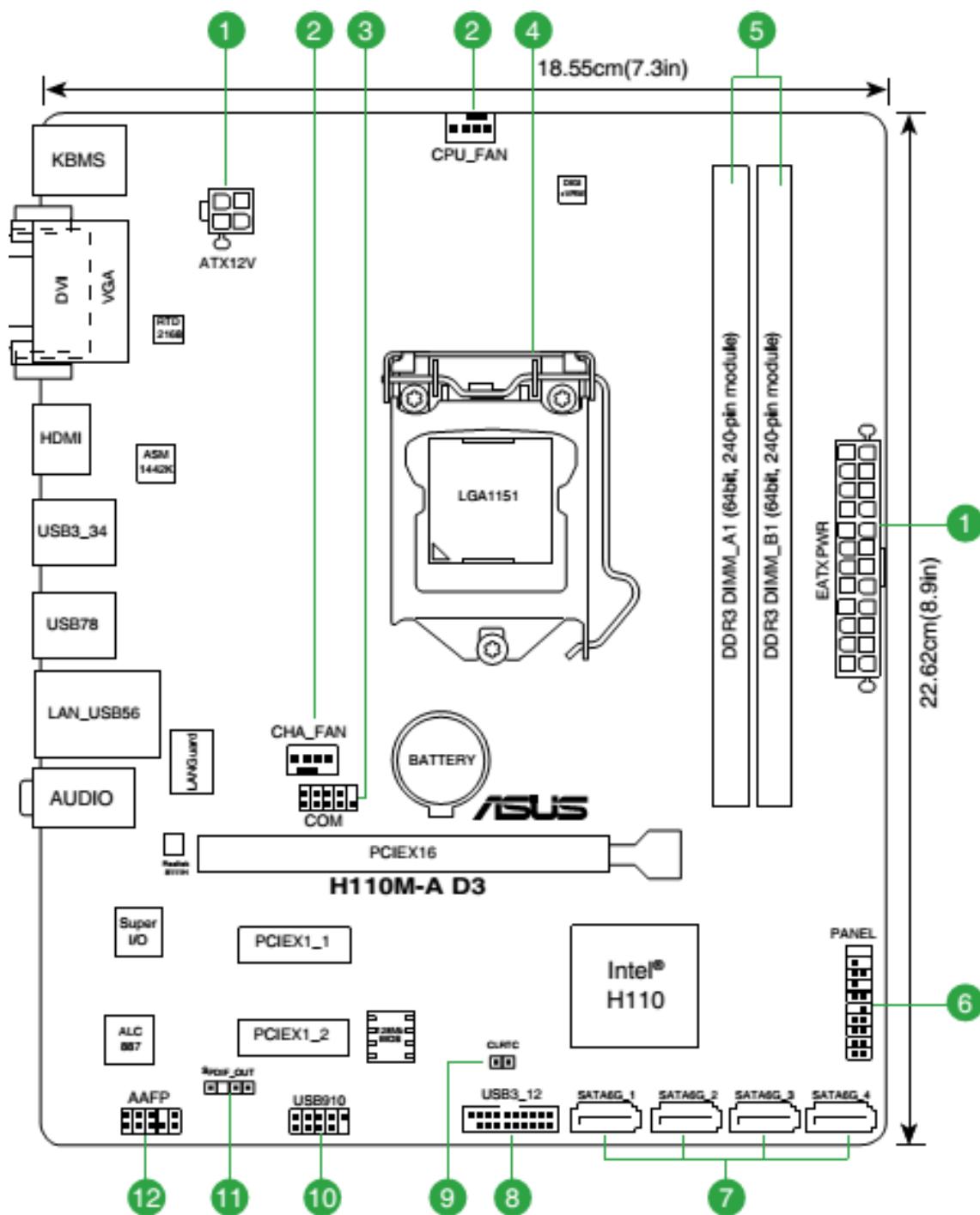
7. A continuació te deixe el manual d'una placa base. Ompli les següents característiques que te demane en la tabla que te facilite.

ESPECIFICACIONS TÈCNIQUES DE LA PLACA		
	CARACTERÍSTIQUES	PLACA
1	MARCA	
2	MODEL	
3	TIPUS DE SÒCOL.	
4	TIPUS DE CPU.	
5	PROCESSADOR QUE SUPORTA	
6	GENERACIÓ DE PROCESSADORS	
7	TIPUS DE MEMÒRIA.	
8	RANURES DE MEMÒRIA.	
9	RANURA DE VÍDEO.	
10	RANURES DE PCI.	
11	RANURES PCI X1	
12	NOMBRES DE PORTS. SATA	
13	TIPUS DE PORT USB	
14	PORT VGA	
15	PORT DVI	
16	PORT HDMI	
17	PORT IDE	
18	CODI XIPSET PRINCIPAL	
19	XIP ÀUDIO	
20	XIP ETHERNET	

PLACA : ASUS MODEL: H110M-A D3.



Connectors/Jumpers/Slots/LED	Page
1. ATX power connectors (24-pin EATXPWR, 4-pin ATX12V)	1-17
2. CPU and chassis fan connectors (4-pin CPU_FAN, 4-pin CHA_FAN)	1-19
3. Serial port connector (10-1 pin COM)	1-14
4. Intel® LGA1151 CPU socket	1-3
5. DDR3 DIMM slots	1-7
6. System panel connector (20-5 pin PANEL)	1-20
7. Intel® H110 Serial ATA 6.0 Gb/s connector (7-pin SATA6G_1~4)	1-16
8. USB 3.0 connectors (20-1 pin USB3_12)	1-16
9. Clear RTC RAM (2-pin CLRTC)	1-11
10. USB 2.0 connectors (USB910)	1-15
11. Digital audio connector (4-1 pin SPDIF_OUT)	1-18
12. Front panel audio connector (10-1 pin AAFP)	1-18



H110M-A D3 specifications summary

CPU	<p>LGA1151 socket for 6th Generation Intel® Core™ i7 / i5 / i3, Pentium®, and Celeron® processors</p> <p>Supports Intel® 14nm CPU</p> <p>Supports Intel® Turbo Boost Technology 2.0*</p> <p>* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.</p> <p>** Refer to www.asus.com for Intel® CPU support list.</p>
Chipset	Intel® H110 Express Chipset
Memory	<p>2 x DIMM, maximum 32 GB, DDR3 1866(O.C.)/1600/1333 MHz, non-ECC, un-buffered memory</p> <p>Dual-channel memory architecture</p> <p>Supports Intel® Extreme Memory Profile (XMP)</p> <p>* Refer to www.asus.com for the latest Memory QVL (Qualified Vendors List).</p>
Expansion slots	<p>1 x PCI Express 3.0/2.0 x16 slot (at x16 mode)</p> <p>2 x PCI Express 2.0 x1 slots</p>
Graphics	<p>Integrated graphics processor - Intel® HD Graphics support</p> <p>Multi-VGA output support: HDMI, DVI-D, D-Sub ports</p> <ul style="list-style-type: none"> - Supports HDMI with maximum resolution of 4096 x 2160 @ 24Hz / 2560 x 1600 @ 60Hz - Supports D-Sub with maximum resolution of 1920 x 1200 @ 60Hz - Supports DVI-D with maximum resolution of 1920 x 1200 @ 60Hz <p>Supports Intel® InTru™ 3D, Quick Sync Video, Intel® Clear Video HD Technology, and Intel® Insider™</p> <p>Maximum shared memory of 1024 MB</p>
Storage	<p>Intel® H110 Express Chipset and Intel Rapid Storage Technology 14 support*:</p> <ul style="list-style-type: none"> - 4 x SATA 6.0 Gb/s ports <p>* This function works depending on the type of CPU installed.</p>

LAN	Realtek® 8111H Gigabit LAN controller
Audio	<p>Realtek® ALC887 8-channel High Definition Audio CODEC</p> <ul style="list-style-type: none"> - Supports jack-detection and front panel jack-retasking <p>Gaming Audio:</p> <ul style="list-style-type: none"> - LED-illuminated design: Brighten up your build with the gorgeous illuminated audio trace path - Audio shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference - Dedicated audio PCB layers: Separate layers for left and right tracks ensure both channels deliver consistent, equal quality - Premium Japanese-made audio capacitors: Provide warm, natural and immersive sound with exceptional clarity and fidelity
USB	<p>Intel® H110 Express Chipset - supports ASUS USB 3.0 Boost</p> <ul style="list-style-type: none"> - 4 x USB 3.0/2.0 ports (2 ports at mid-board; 2 ports at the rear panel) - 6 x USB 2.0/1.1 ports (2 ports at mid-board; 4 ports at the rear panel)
ASUS unique features	<p>ASUS 5X PROTECTION II</p> <ul style="list-style-type: none"> - ASUS LANGuard - Protects against LAN surges, lightning strikes and static-electricity discharges! - ASUS Overvoltage Protection - World-class circuit-protection power design - ASUS DIGI+ VRM - 3+2+1 Phase digital power - ASUS DRAM Overcurrent Protection - Enhanced DRAM overcurrent protection - ASUS Stainless Steel Back I/O - 3X corrosion-resistance for greater durability <p>Superb Performance</p> <ul style="list-style-type: none"> - ASUS EPU - ASUS USB 3.0 Boost - ASUS PC Cleaner: Fast and easy way to get rid of unnecessary junk files <p>Gaming Scenario</p> <p>Audio Features</p> <ul style="list-style-type: none"> - Audio that roars on the battlefield <p>Media Streamer</p> <ul style="list-style-type: none"> - Pipe music or movies from your PC to a smart TV, your entertainment goes wherever you go! - Media Streamer app for portable smartphone/tablet, supporting iOS 7 & Android 4.0 systems <p>ASUS Exclusive Features</p> <ul style="list-style-type: none"> - ASUS AI Charger - ASUS AI Suite 3 - ASUS Disk Unlocker featuring 3TB + HDD support - ASUS Anti Surge

ASUS unique features	ASUS EZ DIY Push Notice <ul style="list-style-type: none"> - Monitor your PC status with smart devices in real time UEFI BIOS EZ Mode <ul style="list-style-type: none"> - Featuring friendly graphics user interface - ASUS CrashFree BIOS 3 - ASUS EZ Flash 3 ASUS Q-Design <ul style="list-style-type: none"> - ASUS Q-DIMM - ASUS Q-Slot
ASUS quiet thermal solution	Quiet Thermal Design <ul style="list-style-type: none"> - ASUS Fanless Design: Stylish heatsink solution - ASUS Fan Xpert
Rear panel I/O ports	1 x PS/2 keyboard port (purple) 1 x PS/2 mouse port (green) 2 x USB 3.0/2.0 ports 4 x USB 2.0/1.1 ports 1 x HDMI port 1 x D-Sub port 1 x DVI-D port 1 x LAN (RJ-45) port 3 x Audio jacks support 8-channel audio output* * Use a chassis with HD audio module in the front panel to support a 8-channel audio output.
Internal connectors	1 x USB 2.0 / 1.1 connectors support additional 2 USB 2.0/ 1.1 ports 1 x USB 3.0 / 2.0 connector support additional 2 USB 3.0/ 2.0 ports 4 x SATA 6.0 Gb/s connectors 1 x 4-pin CPU fan connector for 4-pin PWM mode 1 x 4-pin Chassis fan connector for 4-pin PWM mode & DC mode 1 x Front panel audio connector (AAFP) 1 x S/PDIF out header 1 x COM connector 1 x 24-pin EATX power connector 1 x 4-pin ATX 12V power connector 1 x System panel connector

BIOS features	128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI 2.0, WfM2.0, SM BIOS 3.0, ACPI 5.0, Multi-language BIOS, ASUS EZ Flash 3, ASUS CrashFree BIOS 3, My Favorites, Quick Note, Last Modified Log, F12 PrintScreen function, and ASUS DRAM SPD (Serial Presence Detect) memory information
Manageability	WfM 2.0, DMI 2.0, WOL by PME, PXE
Support DVD	Drivers ASUS utilities EZ Update Anti-virus software (OEM version)
OS support	Windows® 10 (64-bit), Windows® 8.1 (64-bit), Windows® 7 (32-bit / 64-bit) * Please refer to ASUS official website and download “Windows® 7 installation guide” and “ASUS EZ installer” to install Windows® 7.
Form factor	uATX form factor: 8.9 in. x 7.3 in. (22.62 cm x 18.55 cm)