

## TUF GAMING A520M-PLUS WIFI

MB ASUS A520 AMD S-AM4 5A GEN/4X DDR4 2800/2X DP/HDMI/D-SUB/M.2/4X USB3.2/MICRO ATX/GAMA BASICA



### Informacion Tecnica:

MODEL

TUF GAMING A520M-PLUS WIFI

CPU

AMD RYZEN 5000 SERIES/ 5000 G-SERIES/ 4000 G-SERIES/ 3000 SERIES DESKTOP PROCESSORS

REFER TO [WWW.ASUS.COM](http://WWW.ASUS.COM) FOR CPU SUPPORT LIST

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CHIPSET

A520

MEMORIA

CANALES DE MEMORIA:4 X DIMM, MAX. 128GB, DDR4

4 X DIMM, MAX. 128GB, DDR4

4866(OC)/4800(OC)/4600(OC)/4466(OC)/4400(OC)/4266(OC)/4133(OC)/4000(OC)/3866(OC)/3733(OC)/3600(OC)/3466(OC)/3333(OC)/3200/3000/2800/2666/2400/2133 MHZ, UN-BUFFERED

MEMORY

DUAL CHANNEL MEMORY ARCHITECTURE

ECC MEMORY (ECC MODE) SUPPORT VARIES BY CPU.

REFER TO [WWW.ASUS.COM](http://WWW.ASUS.COM) FOR THE MEMORY QVL (QUALIFIED VENDORS LISTS), AND MEMORY FREQUENCY SUPPORT DEPENDS ON THE CPU TYPES.

GRAFICOS

1 X DISPLAYPORT 1.2

1 X D-SUB

1 X HDMI PORT\*\*\*

1 X DISPLAYPORT 1.2

1 X HDMITM 2.1(4K60HZ)

1 X D-SUB

GRAPHICS SPECIFICATIONS MAY VARY BETWEEN CPU TYPES.

#### RANURAS DE EXPANSION

AMD RYZEN 5000 SERIES/ 5000 G-SERIES/ 4000 G-SERIES/ 3000 SERIES DESKTOP PROCESSORS

1 X PCIE 3.0 X16 SLOT (SUPPORTS X16 MODE)

AMD A520 CHIPSET

2 X PCIE 3.0 X1 SLOTS

#### ALMACENAMIENTO

AMD RYZEN 5000 SERIES/ 4000 G-SERIES/ 3000 SERIES DESKTOP PROCESSORS

M.2 SLOT (KEY M), TYPE 2242/2260/2280 (SUPPORTS PCIE 3.0 X4 SATA MODES)

AMD A520 CHIPSET

4 X SATA 6GB/S PORTS

SUPPORT RAID 0, 1, 10

#### ETHERNET

TUF LANGUARD

1 X REALTEK 1GB ETHERNET

TUF LANGUARD

#### WIRELESS & BLUETOOTH

REALTEK WI-FI 5 8821CE

1X1 WI-FI 5 (802.11 A/B/G/N/AC) WITH MU-MIMO

SUPPORTS DUAL FREQUENCY BAND 2.4/5GHZ

SUPPORTS CHANNEL BANDWIDTH: HT20/HT40/HT80

#### BLUETOOTH V5.0

##### USB

USB TRASERO:TOTAL 6 PORTS

4 X USB 3.2 GEN 1 PORTS (4 X TYPE-A)

2 X USB 2.0 PORTS (2 X TYPE-A)

USB FRONTAL:TOTAL 6 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 3 USB 2.0 PORTS

#### AUDIO

REALTEK ALC887/897 7.1 SURROUND SOUND HIGH DEFINITION AUDIO CODEC

SUPPORTS : JACK DETECTION, MULTI-STREAMING, FRONT PANEL JACK-RETASKING

SUPPORTS UP TO 24-BIT/192 KHZ PLAYBACK

#### AUDIO FEATURES

- AUDIO SHIELDING

- PREMIUM JAPANESE AUDIO CAPACITORS

- DEDICATED AUDIO PCB LAYERS

A CHASSIS WITH AN HD AUDIO MODULE IN THE FRONT PANEL IS REQUIRED TO SUPPORT 7.1 SURROUND SOUND AUDIO OUTPUT.

#### PUERTOS E/S TRASEROS

4 X USB 3.2 GEN 1 PORTS (4 X TYPE-A)

2 X USB 2.0 PORTS (2 X TYPE-A)

1 X DISPLAYPORT

1 X HDMI PORT

1 X D-SUB

1 X ASUS WI-FI MODULE

1 X REALTEK 1GB ETHERNET PORT

3 X AUDIO JACKS

1 X BIOS FLASHBACK™ BUTTON

1 X PS/2 KEYBOARD/MOUSE COMBO PORT

#### PUERTOS INTERNOS

##### FAN AND COOLING RELATED

1 X 4-PIN CPU FAN HEADER

2 X 4-PIN CHASSIS FAN HEADERS

##### POWER RELATED

1 X 24-PIN MAIN POWER CONNECTOR

1 X 8-PIN +12V POWER CONNECTOR

##### STORAGE RELATED

1 X M.2 SLOT (KEY M)

4 X SATA 6GB/S PORTS

#### USB

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 3 USB 2.0 PORTS

#### MISCELLANEOUS

2 X AURA ADDRESSABLE GEN 2 HEADER

NEOUS2 X AURA RGB HEADERS

1 X CLEAR CMOS HEADER

1 X COM PORT HEADER

1 X FRONT PANEL AUDIO HEADER (AAFP)

1 X S/PDIF OUT HEADER

1 X SPEAKER HEADER

1 X SPI TPM HEADER (14-1PIN)

1 X 10-1 PIN SYSTEM PANEL HEADER

#### FUNCIONES ESPECIALES DE ASUS

##### ASUS TUF PROTECTION

- DIGI+ VRM

- ESD GUARDS

- TUF LANGUARD
- OVERVOLTAGE PROTECTION
- SAFESLOT CORE+
- STAINLESS-STEEL BACK I/O

#### ASUS Q-DESIGN

- Q-DIMM
- Q-SLOT

#### ASUS THERMAL SOLUTION

- VRM HEATSINK DESIGN

#### ASUS EZ DIY

- BIOS FLASHBACK™ BUTTON
- BIOS FLASHBACK™ LED

#### AURA SYNC

- AURA RGB HEADERS
- ADDRESSABLE GEN 2 RGB HEADERS

#### SOFTWARE

##### ASUS EXCLUSIVE SOFTWARE

##### ARMOURY CRATE

- AURA CREATOR
- AURA SYNC

##### AI SUITE 3

- PERFORMANCE AND POWER SAVING UTILITY

##### TURBOV EVO

##### EPU

##### DIGI+ VRM

##### FAN XPERT 2+

- EZ UPDATE
- PC CLEANER
- SYSTEM INFORMATION

##### TUF GAMING CPU-Z

##### AI CHARGER

##### ASUS TURBO LAN

##### DAEMON TOOLS

##### MYASUS

##### NORTON ANTI-VIRUS SOFTWARE (FREE TRIAL VERSION)

##### WINRAR

##### UEFI BIOS

##### ASUS EZ DIY

- ASUS CRASHFREE BIOS 3
- ASUS EZ FLASH 3
- ASUS UEFI BIOS EZ MODE

#### BIOS

128 MB FLASH ROM, UEFI AMI BIOS

#### MANEJABILIDAD

WOL BY PME, PXE

#### ACCESORIOS

##### CABLES

2 X SATA 6GB/S CABLES

#### MISCELLANEOUS

1 X I/O SHIELD

1 X M.2 SSD SCREW PACKAGE

1 X ASUS WI-FI MOVING ANTENNA

1 X TUF GAMING STICKER

INSTALLATION MEDIA

1 X SUPPORT DVD

#### DOCUMENTATION

1 X TUF CERTIFICATION CARD

1 X USER MANUAL

#### SISTEMA OPERATIVO

WINDOWS 10 64-BIT

WINDOWS 7 64-BIT \*1

WINDOWS 10 64-BIT

#### FACTOR DE FORMA

MATX

9.6 INCH X 9.6 INCH ( 24.4 CM X 24.4 CM )

#### **Informacion Comercial:**

TARJETA MADRE PARA JUEGOS AMD A520 (RYZEN AM4) MICRO ATX CON SOPORTE M.2, WI-FI 802.11AC, DISPLAYPORT, HDMI, D-SUB, PUERTOS USB 3.2 GEN 1, SATA 6 GBPS Y PUERTOS AURA GEN 2 DIRECCIONABLES

SOCKET AMD AM4: LISTO PARA PROCESADORES DE ESCRITORIO RYZEN 5000 SERIES / 4000 G-SERIES / 3000 SERIES.

REFRIGERACION COMPLETA: GRAN DISIPADOR DE CALOR VRM, DISIPADOR DE CALOR PCH, FAN XPERT 2.

CONECTIVIDAD ULTRARRAPIDA: DUAL M.2, PCIE 4.0, ETHERNET DE 1 GB, USB 3.2 GEN 2 TIPO-A.

HECHA PARA JUEGOS EN LINEA: TECNOLOGIA WI-FI 802.11AC, TUF LANGUARD Y TURBOLAN.

AURA SYNC RGB: PUERTOS RGB INTEGRADOS Y PUERTOS GEN 2 DIRECCIONABLES PARA TIRAS DE

LED RGB, QUE SE SINCRONIZAN FACILMENTE CON HARDWARE COMPATIBLE CON AURA SYNC.