

# GR Fabrica Digital

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## COTIZACIÓN

viernes, 9 de abril de 2021

Javier

Producto	Cant.	Precio	Monto
Board - ASRock B450M Steel Legend AM4	1	\$2,335.00	\$2,335.00
Case - COUGAR MX410-G ATX	1	\$1,375.00	\$1,375.00
CPU - RYZEN 5 3600 (4.2 GHz Max Boost)*	1	\$5,395.00	\$5,395.00
DDR4 - ADATA XPG D50 8GB 3200Mhz DISIPADOR TITANIO [AX4U320038G16A ST50]	2	\$1,196.00	\$2,392.00
Docking - Red Wifi - TP-Link PCI 300Mbps PC [TL-WN881ND]*	1	\$575.00	\$575.00
GPU - ZOTAC GAMING GeForce GTX 1650 OC 4GB GDDR6 Gaming*	1	\$12,496.00	\$12,496.00
HDD 3.5 - Seagate BarraCuda 1TB 64MB [ ST1000DM010]*	1	\$1,261.00	\$1,261.00
PSU - CORSAIR CV450 450W 80 PLUS BRONZE [CP-9020209-N]	1	\$1,095.00	\$1,095.00
SSD 2.5 - ADATA 120GB [ASU650SS-120GT-R]*	1	\$890.00	\$890.00
TOTAL:			\$27,814.00

Nota: Los precios y la disponibilidad están sujetos a cambio sin previo aviso.

## Detalles Técnicos

A continuación, se detallan cada uno de los productos listados en la cotización.

### Board - ASRock B450M Steel Legend AM4

#### Especificaciones

Model

Brand ASRock

Model B450 Steel Legend

Supported CPU

CPU Socket Type AM4

CPU Type Ryzen Series

Chipsets

Chipset AMD Promontory B450

Memory

Number of Memory Slots 4x288pin

Memory Standard AMD Ryzen series CPUs (Matisse)

support DDR4 3200/ 2933/ 2667/ 2400/ 2133 ECC & non-ECC, un-buffered memory\*

AMD Ryzen series CPUs (Pinnacle Ridge) support DDR4 3533+(OC)/ 3200(OC)/ 2933(OC)/ 2667/ 2400/ 2133 ECC & non-ECC, un-buffered memory\*

AMD Ryzen series CPUs (Picasso) support DDR4 2933/ 2667/ 2400/ 2133 non-ECC, un-buffered memory\*

AMD Ryzen series CPUs (Summit Ridge) support DDR4 3466+(OC)/ 3200(OC)/ 2933(OC)/ 2667/ 2400/ 2133 ECC & non-ECC, un-buffered memory\*

AMD Ryzen series CPUs (Raven Ridge) support DDR4 3466+(OC)/ 3200(OC)/ 2933/ 2667/ 2400/ 2133 non-ECC, un-buffered memory\*

\* For Ryzen Series CPUs (Picasso and Raven Ridge), ECC is only supported with PRO CPUs.

Maximum Memory Supported 64GB

\*\* Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows 32-bit OS. For Windows 64-bit OS with 64-bit CPU, there is no such limitation.

Channel Supported Dual Channel

Expansion Slots

PCI Express 3.0 x16 AMD Ryzen series CPUs (Matisse, Summit Ridge and Pinnacle Ridge)

- 2 x PCI Express 3.0 x16 Slots (PCIe1: x16 mode; PCIe4: x4 mode)\*

AMD Ryzen series CPUs (Picasso, Raven Ridge)

- 2 x PCI Express 3.0 x16 Slots (PCIe1: x8 mode; PCIe4: x4 mode) (If you use Athlon 2xxGE series APU, PCIe1 slot will run at x4 mode.)

AMD Athlon series CPUs

- 2 x PCI Express 3.0 x16 Slots (PCIe1: x4 mode; PCIe4: x2 mode)\*

\* Supports NVMe SSD as boot disks

\* If M2\_1 is occupied, PCIe4 will be disabled

PCI Express x1 4 x PCI Express 2.0 x1 Slots

Storage Devices

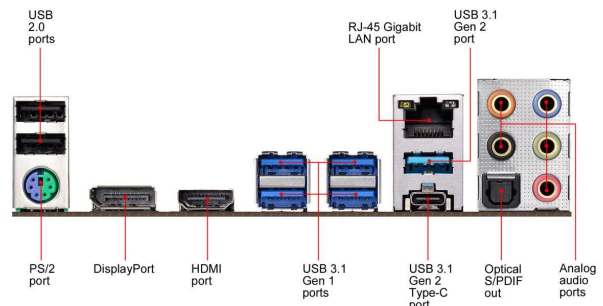
SATA 6Gb/s 4 x SATA3 6.0Gb/s Connectors, support RAID, NCQ, AHCI and Hot Plug\*

2 x SATA3 6.0Gb/s Connectors by ASMedia ASM1061, support NCQ, AHCI and Hot Plug

\* M2\_2, SATA3\_3 and SATA3\_4 share lanes. If either one of them is in use, the others will be disabled.

M.2 1 x Ultra M.2 Socket (M2\_1), supports M Key type 2230/2242/2260/2280 M.2 PCI Express module up to Gen3 x4 (32Gb/s) (with Matisse, Picasso, Summit Ridge, Raven Ridge and Pinnacle Ridge) or Gen3 x2 (16Gb/s) (with Athlon series APU and Raven Ridge 2)\*\*

1 x M.2 Socket (M2\_2), supports M Key type 2230/2242/2260/2280/22110 M.2 SATA3 6.0Gb/s module and M.2 PCI Express module up to Gen3 x2 (16Gb/s)\*\*



\*\* If M2\_1 is occupied, PCIe4 will be disabled

\*\* Supports NVMe SSD as boot disks

\*\* Supports ASRock U.2 Kit

SATA RAID 0/1/10

Onboard Video

Onboard Video Chipset Integrated AMD Radeon Vega Series Graphics in Ryzen Series APU\*

DirectX 12, Pixel Shader 5.0

Shared memory default 2GB. Max Shared memory supports up to 16GB. \*\*

Dual graphics output: Support HDMI and DisplayPort 1.2 ports by independent display controllers

Supports HDMI 1.4 with max. resolution up to 4K x 2K

(4096x2160) @ 24 Hz / (3840x2160) @ 30 Hz

Supports DisplayPort 1.2 with max. resolution up to 4K x 2K (4096x2160) @ 60 Hz

Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI 1.4 Port (Compliant HDMI monitor is required)

Supports HDCP 1.4 with HDMI 1.4 and DisplayPort 1.2 Ports

Supports 4K Ultra HD (UHD) playback with HDMI 1.4 and DisplayPort 1.2 Ports

\* Actual support may vary by CPU

\*\* The Max shared memory 16GB requires 32GB system memory installed

Onboard Audio

Audio Chipset Realtek ALC892/897 Audio Codec

Audio Channels 7.1 CH HD Audio with Content Protection

Supports Surge Protection

Onboard LAN

LAN Chipset Realtek RTL8111H

Max LAN Speed 10/100/1000Mbps

Rear Panel Ports

Back I/O Ports 1 x PS/2 Mouse/Keyboard Port

1 x HDMI Port

1 x DisplayPort 1.2

1 x Optical SPDIF Out Port

2 x USB 2.0 Ports (Supports ESD Protection)

1 x USB 3.2 Gen2 Type-A Port (10Gb/s) (Supports ESD Protection)

1 x USB 3.2 Gen2 Type-C Port (10Gb/s) (Supports ESD Protection)

4 x USB 3.2 Gen1 Ports (Supports ESD Protection)\*

1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)

HD Audio Jacks: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone (Gold Audio Jacks)

\* Ultra USB Power is supported on USB3\_34 ports.

\* ACPI wake-up function is not supported on USB3\_34 ports.

Internal I/O Connectors

Onboard USB 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection)

1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) (Supports ESD Protection)

Other Connectors 1 x COM Port Header

1 x TPM Header

1 x Power LED and Speaker Header

1 x RGB LED Header\*

1 x Addressable LED Header\*\*

1 x AMD Fan LED Header\*\*\*

1 x CPU Fan Connector (4-pin)\*\*\*\*

1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)\*\*\*\*\*

3 x Chassis/Water Pump Fan Connectors (4-pin) (Smart Fan Speed Control)\*\*\*\*\*

1 x Front Panel Audio Connector

\* Supports in total up to 12V/3A, 36W LED Strip.

\*\* Supports in total up to 5V/3A, 15W LED Strip.

\*\*\* The AMD Fan LED Header supports LED strips of maximum load of 3A (36W) and length up to 2.5M.

\*\*\*\* The CPU Fan Connector supports the CPU fan of



maximum 1A (12W) fan power.

\*\*\*\*\* The CPU/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power.

\*\*\*\*\* The Chassis/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power.

\*\*\*\*\* CPU\_FAN2/WP, CHA\_FAN1/WP, CHA\_FAN2/WP and CHA\_FAN3/WP can auto detect if 3-pin or 4-pin fan is in use.

Physical Spec

Form Factor ATX

LED Lighting RGB

Dimensions (W x L) 12.0" x 9.6"

Power Pin 1 x 24-pin ATX Power Connector

1 x 8-pin 12V Power Connector

## Case - COUGAR MX410-G ATX

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### CPU - RYZEN 5 3600 (4.2 GHz Max Boost)\*

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AMD RYZEN 5 3600 6-Core 3.6 GHz (4.2 GHz Max Boost)  
Socket AM4 65W 100-100000031BOX Desktop Processor

NeweggId: N82E16819113569  
Processors - Desktops

Model  
Brand: AMD  
Processors Type: Desktop  
Series: Ryzen 5  
Name: Ryzen 5 3600  
Model: 100-100000031BOX

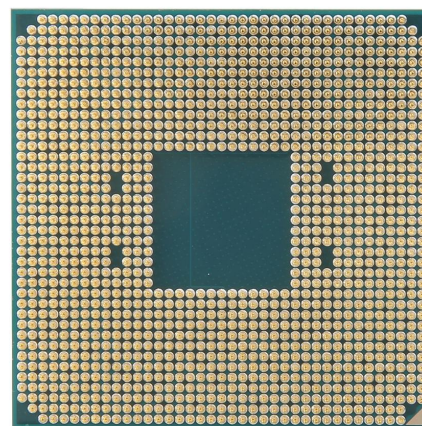
Details  
CPU Socket Type: Socket AM4  
Core Name: Matisse  
# of Cores: 6-Core  
# of Threads: 12  
Operating Frequency: 3.6 GHz  
Max Turbo Frequency: 4.2 GHz  
L2 Cache: 3MB  
L3 Cache: 32MB  
Manufacturing Tech: 7nm  
64-Bit Support: Yes  
Memory Types: DDR4 3200  
Memory Channel: 2  
Virtualization Technology Support: Yes





PCI Express Revision: 4.0  
Max Number of PCI Express Lanes: 16  
Thermal Design Power: 65W  
Cooling Device: Heatsink and fan included

Additional Information  
Date First Available: July 02, 2019

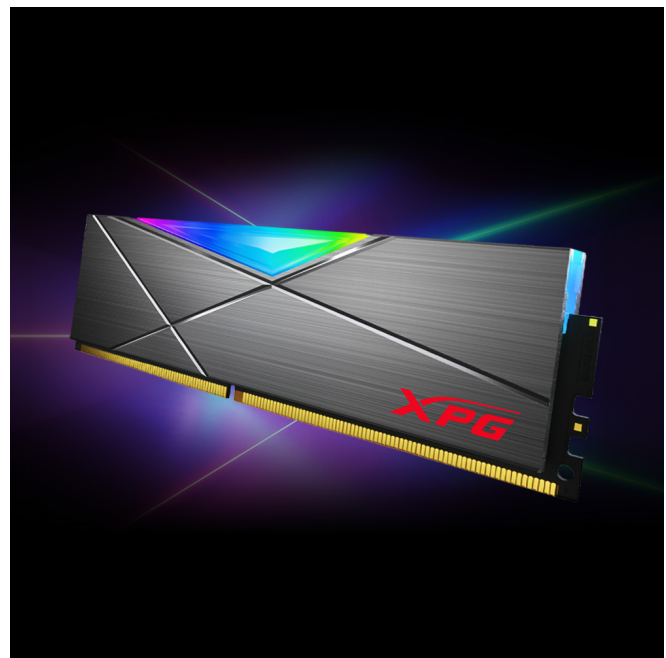






### DDR4 - ADATA XPG D50 8GB 3200Mhz DISIPADOR TITANIO [AX4U320038G16A ST50]

Especificaciones  
Peso y dimensiones  
Altura 40 mm  
Profundidad 8 mm  
Ancho 133.3 mm  
Detalles técnicos  
Sustainability certificates RoHS  
Memoria  
Intel® Extreme Memory Profile (XMP) Si  
Latencia CAS 16  
Diseño de memoria (módulos x tamaño) 1 x 8 GB  
Componente para PC/servidor  
Tipo de memoria interna DDR4  
Memoria interna 8 GB  
Velocidad de memoria del reloj 3200 MHz  
Intel Extreme Memory Profile (XMP) version 2.0





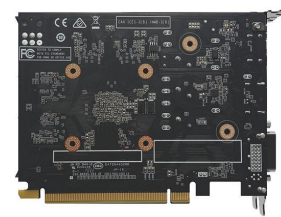


Docking - Red Wifi - TP-Link PCI 300Mbps PC [TL-WN881ND]\*

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### HDD 3.5 - Seagate BarraCuda 1TB 64MB [ ST1000DM010]\*

Seagate BarraCuda ST1000DM010 1TB 7200 RPM 64MB  
Cache SATA 6.0Gb/s 3.5" Hard Drive Bare Drive - OEM

NeweggId: N82E16822179010  
Desktop Internal Hard Drives

Model  
Brand: Seagate  
Series: BarraCuda  
Model: ST1000DM010  
Packaging: Bare Drive

Performance  
Interface: SATA 6.0Gb/s  
Capacity: 1TB  
RPM: 7200 RPM  
Cache: 64MB  
Average Latency: 6Gb/s

Features  
Features: Versatile HDDs for all your PC needs bring you industry-leading excellence in personal computing.

For over 20 years the BarraCuda family has delivered super-reliable storage for the hard drive industry.

Capacities up to 4TB for desktops, BarraCuda leads the market with the widest range of storage options available.

Advanced Power modes help save energy without sacrificing performance.

SATA 6Gb/s interface optimizes burst performance.

Best-Fit Applications

- Desktop or all-in-one PCs
  - Home servers
  - Entry-level direct-attached storage devices (DAS)
- Usage: For Daily Computing

Dimensions

Form Factor: 3.5"  
Height (maximum): 19.99mm  
Width (maximum): 101.60mm  
Length (maximum): 146.99mm





**PSU - CORSAIR CV450 450W 80 PLUS BRONZE [CP-9020209-N]**

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## SSD 2.5 - ADATA 120GB [ASU650SS-120GT-R]\*

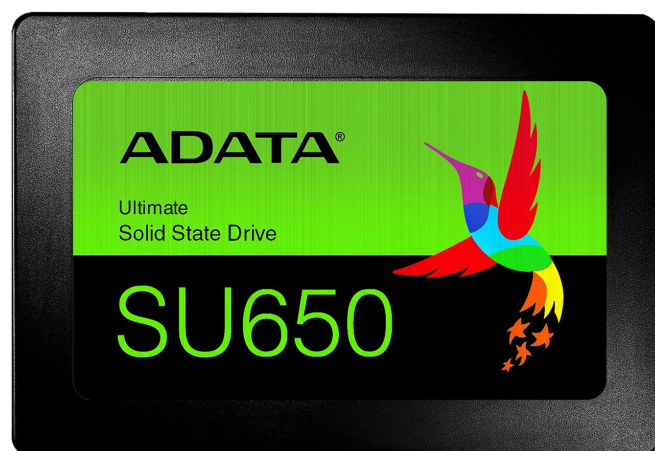
ADATA Ultimate SU650 2.5" 120GB SATA III 3D NAND  
Internal Solid State Drive (SSD) ASU650SS-120GT-R

NeweggId: N82E16820215328  
Internal SSDs

Model  
Brand: ADATA  
Series: Ultimate SU650  
Model: ASU650SS-120GT-R  
Device Type: Internal Solid State Drive (SSD)  
Used For: Consumer

Details  
Form Factor: 2.5"  
Capacity: 120GB  
Memory Components: 3D NAND  
Interface: SATA III

Performance  
Max Sequential Read: ATTO: Up to 520 MB/s



CDM-QD32T1: Up to 520 MB/s  
AS SSD: Up to 500 MB/s  
Max Sequential Write: ATTO: Up to 320 MB/s  
CDM-QD32T1: Up to 320 MB/s  
AS SSD: Up to 300 MB/s  
4KB Random Read: Up to 20,000 IOPS  
4KB Random Write: Up to 75,000 IOPS  
MTBF: 2,000,000 hours

#### Features

Features: TBW: 70TB

3D NAND Flash for higher durability and capacity

SLC caching: enhances transmission speed

Wide capacity range: 60GB to 960GB

Advanced error correction

Tougher, quieter, and more reliable than HDDs

Supports ADATA proprietary software - SSD Toolbox and Migration Utility

#### Environmental

Operating Temperature: 0°C ~ +70°C

Storage Temperature: -40°C ~ +85°C

Max Shock Resistance: 1500G / 0.5 ms

#### Dimensions & Weight

Height: 7.00mm

Width: 69.85mm

Depth: 100.45mm

Weight: 47.50g

#### Additional Information

Date First Available: December 27, 2018



