

Features and Specifications

This chapter lists the features and specifications of the Aspire GX-281 Desktop Computer.

NOTE The items listed in this section are for reference only. The exact configuration of your PC depends on the model purchased.

System Features

Component	Description
Operating system support	<ul style="list-style-type: none"> • Microsoft Windows 10 ML x64 • Microsoft Windows 10 SL x64 • Microsoft Windows 10 CN x64 • Linpus • FreeDOS
Processor	<ul style="list-style-type: none"> • Socket AM4 • Supports the following AMD Summit Ridge processors: <ul style="list-style-type: none"> - AMD RYZEN 7 1700X 3.4G 16M(L3) 2400 Octa Core 95W - AMD RYZEN 7 1700 3.0G 16M(L3) 2400 Octa Core 65W - AMD RYZEN 5 1600 3.2G 16M(L3) 2400 Hexa Core 65W - AMD RYZEN 5 1400 3.2G 8M(L3) 2400 Quad Core 65W
Chipset	FCH: AMD Promontory B350
Graphics controller	One PCIe x16 graphics card (nVidia GTX1070/1060/1050)
Hardware monitor	Super I/O
Memory	Support DDR4 1.2V 2400 U-DIMMs (4GB, 8GB or 16GB) dual channel up to 64GB total memory
PCI expansion options	<ul style="list-style-type: none"> • One PCI Express x8 slot (reserved for GPU card installation) • Two M.2 slots
Display	<ul style="list-style-type: none"> • Quadruple independent display support (via graphics card) • Maximum resolution <ul style="list-style-type: none"> - HDMI: 4096 x 2160 @ 60Hz - Display Port: 4096 x 2160 @ 60Hz <p>Note: No onboard display support.</p>
Audio	Realtek ALC662-VD 5.1 Channel High Definition Audio Codec
I/O ports	<ul style="list-style-type: none"> • Front panel <ul style="list-style-type: none"> – Two USB 3.0 ports (one with fast charge support) – One Headphone jack – One Microphone jack – One SD card reader slot • Rear panel <ul style="list-style-type: none"> – Four USB2.0 ports – Two USB 3.1 ports – One Ethernet jack (RJ45) – One Microphone jack – One Line-out jack – One Line-in jack

Component	Description
Hard disk drive (HDD)	<ul style="list-style-type: none"> Two HDD bays supporting 3.5-inch or 2.5-inch SATA 3.0 HDD Support 7200 rpm SATA HDD in 1TB/2TB/3TB capacities
Solid state drive (SSD)	<ul style="list-style-type: none"> One M.2 slot supporting Solid State Drives (SSD) Support SSD in 256GB capacity
Optical disc drive (ODD)	<ul style="list-style-type: none"> One ODD bay supporting 9mm tray type SATA ODD Supports DVD-R/RW drive or DVD-Super Multi double-layer drive
Card reader	SD card reader
Connectivity	<ul style="list-style-type: none"> Wired LAN: Onboard 10/100/1000 Ethernet (Realtek RTL8111GA) WLAN option: 802.11 ac WLAN+BT (Intel 7265 Stonepeak)
Power supply	FR 500W power supply unit (Active PFC)
Security	<ul style="list-style-type: none"> BIOS-based user and supervisor passwords Kensington lock
LED display and buttons	<ul style="list-style-type: none"> Power LED Wireless charger LED Power button ODD eject button
System BIOS	<ul style="list-style-type: none"> AMI BIOS with 16 MB SPI Flash ROM Supports ACPI revision 5.0 standard Supports Plug and Play, STR(S3)/STD(S4), hardware monitor, Multi Boot, and DMI protocols

Physical Specifications

Aspect	Description
Chassis dimension (W x H x D)	175mm x 440mm x 390mm (6.89in x 17.32in x 15.35in)
System weight	8.7 kg (19.18 lb)
Mainboard form factor	DTX compatible
Mainboard dimensions (W x H)	200mm*244mm, 6 Layers

Environmental Requirements

Aspect	Description
Operating temperature	5 to 35 °C (41 to 95 °F)
Non-operating temperature	Packed: -20 to 60 °C (-4 to 140 °F) Unpacked: -10 to 60 °C (14 to 140 °F)
Operating humidity	-15% to 80% RH non-condensing
Non-operating humidity	-10% to 90% RH non-condensing at 40 °C

System Tour

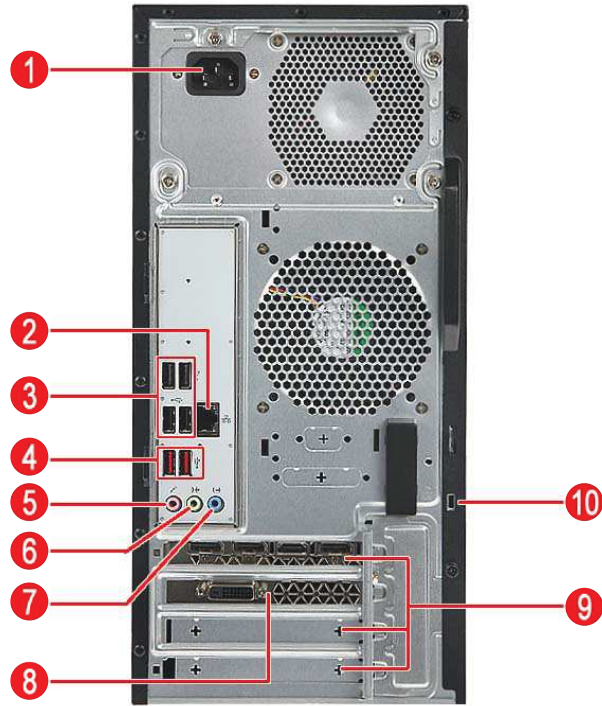
The pictures and tables in this section illustrate the physical outlook of the computer.

Front View



Item	Component
1	Optical disc drive (ODD)
2	SD card reader
3	USB 3.1 port (Type C)
4	Microphone-in jack
5	Headphone jack
6	USB 3.0 port
7	ODD eject button
8	Wireless charger
9	Wireless charger LED
10	Power button/LED

Rear View



Item	Component
1	Power connector
2	LAN connector
3	USB 2.0 ports
4	USB 3.1 ports
5	Microphone jack
6	Line-in jack
7	Line-out jack
8	Expansion card slots
9	Expansion card
10	Kensington lock

Hardware Specifications

Processor

Item	Specification
Socket	Socket AM4
Package type	14 nm
CPU type	Supports the following AMD Summit Ridge processors: <ul style="list-style-type: none">- AMD RYZEN 7 1700X 3.4G 16M(L3) 2400 Octa Core 95W- AMD RYZEN 7 1700 3.0G 16M(L3) 2400 Octa Core 65W- AMD RYZEN 5 1600 3.2G 16M(L3) 2400 Hexa Core 65W- AMD RYZEN 5 1400 3.2G 8M(L3) 2400 Quad Core 65W

Chipset

Item	Specification
System chipset	FCH: AMD Promontory B350
Hardware monitor	Super I/O IT8772E-EX

Memory

Item	Specification
Controller	Integrated in the AMD Summit Ridge processors
Number of DIMM slot	4
Maximum memory	64GB (using four 16GB modules)
Data rate	2400 MT/s
DIMM type	DDR4 1.2V or U-DIMMs
Supported capacities	4GB, 8GB, 16GB
Vendor and models	<ul style="list-style-type: none">• A-DATA – 4GB AM2P24HC4U1-B9QS• HYNIX – 4GB HMA851U6AFR6N / 8GB HMA81GU6AFR8N• KINGSTON – 8GB ACR24D4U7S8MB-8 / 16GB ACR24D4U7D8MB-16• MICRON – 4GB MTA4ATF51264AZ-2G3B1 / 8GB MTA8ATF1G64AZ-2G3B1 / 16GB MTA16ATF2G64AZ-2G3B1
Population rule	Please refer to “Reinstalling the Memory Modules” on page 76 for Memory Population Matrix Table.

Solid State Drive (SSD)

Item	Specification
Controller	Integrated in the AMD Promontory B350 chipset
Number of SSD bays	1
Form factor	M.2 2280
Interface	SATA 3.0
Supported capacities	256GB
Vendor and models	Intel – 256GB SSDPEKKW256G7X1

Hard Disk Drive

Item	Specification
Controller	Integrated in the AMD Summit Ridge processors
Number of HDD bays	2
Form factor	3.5-inch or 2.5-inch
Interface	SATA 3.0
Supported capacities	1TB, 2TB, 3TB
Vendor and models	<ul style="list-style-type: none">• Seagate – ST1000DM0102 Pharaoh Oasis / ST2000DM006 Grenada BP2 Refresh• Toshiba – 1TB / 2TB Mars• Western Digital – WD30EZRZ-22D8PB0 / WD30EZRZ-22Z5HB0

Optical Disc Drive

Item	Specification
Controller	Integrated in the AMD Promontory B350 chipset
Type	DVD ROM/SuperMulti
Number of ODD bays	2
Form factor	Slim type, 9mm
Interface	SATA 3.0
Write/read speed	8x
Vendor and models	<ul style="list-style-type: none">• HLDS – GUE1N• PLDS – DA-8AESH

Card Reader

Item	Specification
Controller	RTS5143
Type	SD card reader
Card compatibility	<ul style="list-style-type: none">• SD - SanDisk 2 GB SD card• SDHC - Transcend 4 GB SDHC card• SDXC - Kingston 64 GB SDXC card• mini-SD - SanDisk 1 GB Mini-SD card• mini-SDHC - SanDisk 4 GB Mini-SDHC card• micro-SD - Kingston 2 GB micro-SD card• micro-SDHC - SanDisk 4 GB micro-SDHC card

Ethernet

Item	Specification
Controller	Realtek RTL8111GA
LAN protocol	10/100/1000 Mbps
LAN connector type	RJ-45

Wireless LAN

Item	Specification
WLAN module	Intel Wireless 7265 Stonepeak AC+BT
Protocol	WLAN 802.11ac WLAN+Bluetooth4.0

Audio

Item	Specification
Controller	Realtek ALC662-VD 5.1 Channel High Definition Audio Codec
Connectors	Three audio jacks

SATA Interface

Item	Specification
SATA Controller	<ul style="list-style-type: none">Integrated in the AMD Summit Ridge processors (SATA 0/1)Integrated in the AMD Promontory B350 chipset (SATA 2/3)
Connectors	Four SATA 3.0 ports

Keyboard and Input Devices

Item	Specification
Controller	Super I/O ITE 8772E-EX
Connectors	Eight USB ports (two on front and six on rear)

HDMI

Item	Specification
Controller	nVidia GTX1070/1060/1050
Version	HDMI 2.0a
Maximum Resolution	4096 x 2160 @ 60Hz

Display Port

Item	Specification
Controller	nVidia GTX1070/1060/1050
Version	DisplayPort 1.3
Maximum Resolution	4096 x 2160 @ 60Hz

Power Supply Unit

Item	Specification
Type	FR 500W power supply unit (Active PFC)
Input	100-240V
Output (max.)	500W
Vendor and models	LITE-ON PS-7501-5AE 500W Active PFC 100-127V/220-240V