

Features and Specifications

This chapter lists the features and specifications of the Predator G3-710 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	• Microsoft Windows 10 ML x64 • Microsoft Windows 10 SL x64
Processor	• LGA 1151 socket type • Supports the following Intel Kabylake-S processors: – Intel Core i7 7700K 4.2G 8M 2400 Quad Core 95W – Intel Core i5 7600K 3.8G 8M 2400 Quad Core 95W
Chipset	Intel Skylake B150 chipset
Graphics controller	One PCIe x16 graphics card (nVidia GTX1080/1070/1060)
Hardware monitor	Super I/O
Memory	Support DDR4 1.2V 2400MHz U-DIMMs (4GB, 8GB or 16GB) dual channel up to 64GB total memory
PCI expansion options	• One PCI Express x16 slot • Two PCI Express x1 slots • Two M.2 slots
Display	• Dual independent display support • Maximum resolution – HDMI: 1920 x 1080 @ 60 Hz – Display Port: 4096 x 2304 @ 60 Hz
Audio	Realtek ALC662-VD 5.1 Channel High Definition Audio Codec
I/O ports	• Front panel – Two USB 3.0 ports – One Headphone jack – One Microphone jack – One SD card reader slot • Rear panel – One Display port – One HDMI-OUT port – Four USB 3.0 ports – Two USB 2.0 ports – One Ethernet jack (RJ45) – One Microphone jack – One line-out jack – One line-in jack – One power connector
Hard disk drive (HDD)	• Three HDD bays supporting 3.5-inch or 2.5-inch SATA 3.0 HDD • Support 7200 rpm SATA HDD in 1TB/2TB/3TB/4TB capacities

Component	Description
Solid state drive (SSD)	- One M.2 slot supporting Solid State Drives (SSD) - Support SSD in 128GB/256GB/512GB capacities
Optical disc drive (ODD)	- One ODD bay supporting 5.25-inch standard SATA ODD - Supports DVD-R/RW drive or DVD-Super Multi double-layer drive
Card reader	SD card reader
Connectivity	- Wired LAN: Onboard 10/100/1000 Ethernet (Realtek RTL8111GA) - WLAN option: Intel Stonepeak 7265 WLAN + BT (802.11 b/g/n)
Power Supply	- FR 500W power supply unit (Active PFC) - FR 720W power supply unit (Active PFC)
Security	- BIOS-based user and supervisor passwords - Kensington lock
LED display and buttons	- Power LED - Power button - ODD eject button
System BIOS	- AMI BIOS with 16MB 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)	198mm x 510mm x 411.5mm (7.79in x 20.08in x 16.2n)
System weight	11.96 kg (26.37 lb)
Mainboard form factor	uATX
Mainboard dimensions (W x H)	244mm*244mm, 4 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

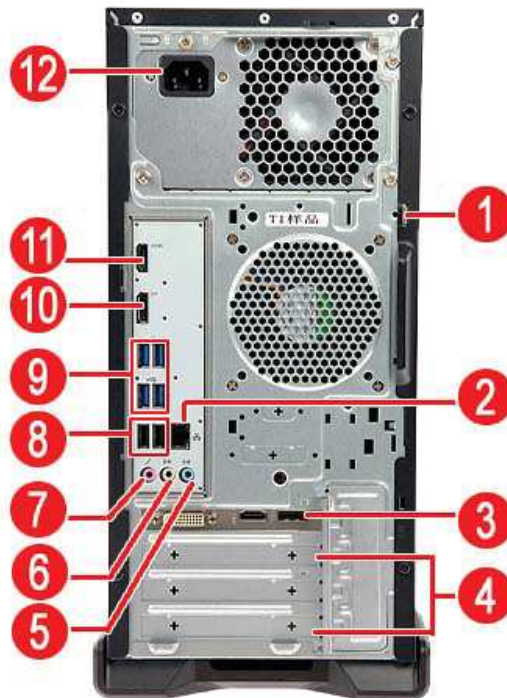
The pictures and tables in this section illustrate the physical outlook of the computer.

Front View



Item	Component
1	Power button/LED
2	ODD eject button
3	Hot Plug HDD cover
4	SD card reader
5	Headphone jack
6	Headphone rest
7	Microphone jack
8	USB 3.0 ports

Rear View



Item	Component
1	Kensington lock slot
2	LAN connector
3	Expansion card
4	Expansion card slots
5	Line-out jack
6	Line-in jack
7	Microphone jack
8	USB2.0 ports
9	USB3.0 ports
10	Display port
11	HDMI-OUT port
12	Power connector

Hardware Specifications

Processor

Item	Specification
Socket	LGA 1151 socket type
Package type	14 nm
CPU type	Supports the following Intel Kabylake-S processors: – Intel Core i7 7700K 4.2G 8M 2400 Quad Core 95W – Intel Core i5 7600K 3.8G 8M 2400 Quad Core 95W

Chipset

Item	Specification
System chipset	Intel Skylake B150 chipset
Hardware monitor	Super I/O IT 8732

Memory

Item	Specification
Controller	Integrated in the Intel Kabylake-S processors
Number of DIMM slot	4
Maximum memory	64GB (using four 16GB modules)
Data rate	2400 MHz
DIMM type	DDR4 1.2V U-DIMMs
Supported capacities	4GB, 8GB or 16GB
Vendor and models	• HYNIX – 4GB HMA851U6AFR6N-UH / 8GB HMA81GU6AFR8N-UH / 16GB HMA82GU6AFR8N-UH • KINGSTON – 4GB ACR24D4U7S1MB-4 / 8GB ACR24D4U7S8MB-8 / 16GB ACR24D4U7D8MB-16
Population rule	Please refer to “Reinstalling the Memory Modules” on page 64 for Memory Population Matrix Table.

Hard Disk Drive

Item	Specification
Controller	Integrated in the Intel Skylake B150 chipset
Number of HDD bays	3
Form factor	3.5-inch / 2.5-inch
Interface	SATA 3.0
Supported capacities	1TB, 2TB, 3TB or 4TB
Vendor and models	• Seagate – ST1000DX001 Grenada BP2H 8G-SSHD / ST2000DX001 Grenada BP2H-8GSSHD • Toshiba – 1000GB Mars • Western Digital – WDXL1000C

Solid State Drive (SSD)

Item	Specification
Controller	Integrated in the Intel Skylake B150 chipset
Number of SSD bays	1
Form factor	M.2 2280
Interface	SATA 3.0
Supported capacities	128GB, 256GB, 512GB
Vendor and models	• Hynix – 128GB HFS128G39TND-N210A / 256GB HFS256G39TND-N210A / 512GB Hynix SC308 • Lite-On – 128GB CV3-8D128 / 256GB CV3-8D256 / 512GB CV3-8D512

Optical Disc Drive

Item	Specification
Controller	Integrated in the Intel Skylake B150 chipset
Type	DVD ROM/SuperMulti
Number of ODD bays	1
Form factor	5.25-inch standard
Interface	SATA 3.0
Write/read speed	16x
Vendor and models	• HLDS – GHD0N • PLDS – DH-16AFSH

Ethernet

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

Wireless LAN

Item	Specification
WLAN module	Intel Stone Peak
Form factor	M.2 2230
Protocol	WLAN 802.11ac/a/b/g/n/M.2/2T2R+BT

Audio

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

HDMI

Item	Specification
Controller	Integrated in the Intel Kabylake-S processors
Version	HDMI 1.4b
Maximum Resolution	1920 x 1080 @ 60 Hz

Display Port

Item	Specification
Controller	Integrated in the Intel Kabylake-S processors
Version	DP 1.2
Maximum Resolution	4096 x 2304 @ 60 Hz

SATA Interface

Item	Specification
SATA Controller	Integrated in the Intel Skylake B150 chipset
Connectors	Four SATA 3.0 ports

PCIe Interface

Item	Specification
Controller	Integrated in the Intel Skylake B150 chipset
Connectors	• One PCIe x16 slot (PCIe V3.0) • Two PCIe x1 slot (PCIe V3.0) • Two mini-PCIe M.2 slot (PCIe V3.0)

Keyboard and Input Devices

Item	Specification
Controller	Super I/O IT 8732
Connectors	Eight USB ports (two on front and six on rear)

Power Supply

Item	Specification
Type	FR 730W power supply unit (Active PFC)
Input	100-240V
Output (max.)	220V, 730W
Vendor and models	FSP FSP750-80EGN(A01001) 720W Active PFC 100-127V/200-240V, 750W de-rating to 730W