Gigabyte GA-X150-PRO ECC Motherboard Specs

CPU
Support for Intel® Xeon® E3-1200 v5 processors/Intel® Core™ processors/ Intel® Pentium®
processors/Intel® Celeron® processors in the LGA1151 package
L3 cache varies with CPU
(Please refer "CPU Support List" for more information.)

Chipset
Intel® C232 Chipset

Memory
4 x DDR4 DIMM sockets supporting up to 64 GB of system memory
* Due to a Windows 32-bit operating system limitation, when more than 4 GB of physical
memory is installed, the actual memory size displayed will be less than the size of the physical
memory installed.
Dual channel memory architecture
Support for DDR4 2133 MHz memory modules
Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules
* ECC support varies by CPU.
Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
(Please refer "Memory Support List" for more information.)

Audio
Realtek® ALC1150 codec
TI Burr Brown® NE5532 operational amplifier
High Definition Audio
2/4/5.1/7.1-channel
Support for S/PDIF Out

LAN
Intel® GbE LAN chip (10/100/1000 Mbit)

Expansion Slots
1 x PCI Express x16 slot, running at x16 (PCIEX16)
* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to
install it in the PCIEX16 slot.
1 x PCI Express x16 slot, running at x4 (PCIEX4)
* The PCIEX4 slot shares bandwidth with the SATA Express slot and the M.2 connector. When
the SATA Express slot or the M.2 connector is populated, the PCIEX4 slot will operate at up to
x1 mode.
1 x PCI Express x1 slot
(All of the PCI Express slots conform to PCI Express 3.0 standard.)

3 x PCI slots

Multi-Graphics Technology
Support for 2-Way AMD CrossFire™ technology

Storage Interface
Chipset:
1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe x4/x2/x1 SSD support)
1 x SATA Express connector
* The SATA Express connector is not compatible with regular SATA devices.
6 x SATA 6Gb/s connectors
Support for RAID 0, RAID 1, RAID 5, and RAID 10
* Refer to "1-8 Internal Connectors", for the supported configurations of the M.2, SATA Express, SATA connectors, and PCIEX4 slot.

USB
Chipset:
6 x USB 3.0/2.0 ports (4 ports on the back panel, 2 ports available through the internal USB header)
6 x USB 2.0/1.1 ports (2 ports on the back panel, 4 ports available through the internal USB headers)
Chipset+Intel® USB 3.1 Controller:
1 x USB Type-C™ port on the back panel, with USB 3.1 support
1 x USB 3.1 Type-A port (red) on the back panel
Internal I/O Connectors
1 x 24-pin ATX main power connector
1 x 8-pin ATX 12V power connector
1 x M.2 Socket 3 connector
1 x SATA Express connector
6 x SATA 6Gb/s connectors
1 x CPU fan header
3 x system fan headers
1 x front panel header
1 x front panel audio header
1 x S/PDIF Out header
1 x USB 3.0/2.0 header
2 x USB 2.0/1.1 headers
1 x Trusted Platform Module (TPM) header
1 x serial port header
1 x Clear CMOS jumper
1 x audio gain control switch

Back Panel Connectors

1 x PS/2 keyboard port

1 x PS/2 mouse port

1 x USB Type-C™ port, with USB 3.1 support

1 x USB 3.1 Type-A port (red)

4 x USB 3.0/2.0 ports

2 x USB 2.0/1.1 ports

1 x RJ-45 port

1 x optical S/PDIF Out connector

5 x audio jacks (Center/Subwoofer Speaker Out, Rear Speaker Out, Line In, Line Out, Mic In)

I/O Controller

iTE® I/O Controller Chip

H/W Monitoring

System voltage detection

CPU/System temperature detection

CPU/System fan speed detection

CPU/System overheating warning

CPU/System fan fail warning

CPU/System fan speed control

* Whether the fan speed control function is supported will depend on the cooler you install.

BIOS

2 x 64 Mbit flash

Use of licensed AMI UEFI BIOS

Support for DualBIOS™

PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

Unique Features

Support for APP Center

@BIOS

ON/OFF Charge

Support for Q-Flash

Support for Smart Switch

Support for Xpress Install

Bundle Software

Norton® Internet Security (OEM version)

cFosSpeed

Operating System

Support for Windows 10/8.1 64-bit

Support for Windows 7 32-bit/64-bit
* Please download the "Windows USB Installation Tool" from GIGABYTE's website and install it before installing Windows 7.

Form Factor
ATX Form Factor; 30.5cm x 22.5cm