

RX680R

12/13th Gen. Intel® Core™ i9/i7/i5/i3 Processor, LGA 1700 Socket, Micro ATX Motherboard With Intel® R680E



Product Features

- LGA 1700 Socket Supports 12/13th Gen. Intel® Core™ i9/i7/i5/i3 Processors, (Max. TDP at 65W) with Intel® R680E Chipset
- 4 x DP++, 1 x LVDS Header
- 2 x RJ45, Intel® I225-LM/I226-LM 2.5 Gigabit Ethernet Controller
- 2 x M.2 M-Key 2242/2280/22110 NVMe, 1 x M.2 E-Key 2230
- ATX Power
- 4 x 288 Pin DDR5 Dual Channel U-DIMM Socket, Support Up to 128GB (ECC Memory Support by CPU)
- 1 x Gen 5 PCIe x16, 2 x Gen 4 PCIe x4, 1 x Gen 3 PCIe x4 Open Ended
- 1 x USB 3.2 Gen 2x2 Type C, 6 x USB 3.2 Gen 2, 2 x USB 3.2 Gen 2, 8 x USB 2.0
- 1 x RS-232/422/485, 5 x RS-232

Specification

| System Information | |
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| Processor | LGA 1700 Socket Supports 12/13th Generation Intel® Core™ i9/i7/i5/i3 Processors (Max. TDP at 65W) |
| Platform Controller Hub | Intel® R680E Chipset |
| System Memory | 4 x 288-Pin DDR5 4400MHz Dual Channel U-DIMM Socket Supports Up to 128GB (ECC Memory Support by CPU) |
| I/O Chipset | nuvoton NCT6126D |
| Watchdog Timer | H/W Reset, 5~255 Seconds/5~255 Minutes |
| BIOS | AMI uEFI BIOS, 256Mbit SPI Flash ROM |
| H/W Status Monitor | CPU Temperature Monitoring Voltages Monitoring CPU Fan Speed Control |
| TPM | infineon TPM 2.0 |
| Board | Micro ATX |

Expansion

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| Expansion | 1 x Gen 5 PCIe x16 2 x Gen 4 PCIe x4 (x16 Physical Yellow) 1 x Gen 3 PCIe x4 Open Ended 1 x M.2 M-Key 2242/2280/22110 NVMe (Gen 4 PCIe x4 + SATA III) 1 x M.2 M-Key 2242/2280/22110 NVMe (Gen 3 PCIe x4 + SATA III) 1 x M.2 E-Key 2230 with CNVi Support (PCIe x1 + USB 2.0) |
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Display

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| Graphic Chipset | Intel® 12/13th Generation CPU Integrated |
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| Spec. & Resolution | 4 x DP (DP1.4a): Max: 7680 x 4320@60Hz (2 x DP++:1920 x 1080@60Hz) |
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| Multiple Display | Four Display |
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| LVDS | 1 x LVDS Header 1 x eDP Header (Optional) |
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Audio

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| Audio Codec | Realtek ALC888S HD Audio Decoding Controller |
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| Audio Interface | Line-out, Mic-in |
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| Audio Amplifier | 2 x 3W 8Ω Amplifier |
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Ethernet

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| LAN Chipset | 2 x Intel® I225LM/I226LM 2.5 Gigabit Ethernet |
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| LAN Port | 2 x RJ45 |
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Power Requirement

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| Power Mode | AT/ATX (Default Setting: ATX) |
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Software Support

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| OS | Windows 10, Windows 11, Linux |
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Certification

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| Certification Information | CE, FCC Class B, RoHS Compliant |
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I/O

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| USB | 1 x USB 3.2 Gen2x2 Type C 6 x USB 3.2 Gen2x1 2 x USB 3.2 Gen2x1 by pin header 8 x USB 2.0 by pin header |
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| COM Port | 5 x RS-232 by pin header 1 x RS-232/422/485 by pin header |
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| SATA | 4 x SATA III |
| RAID | Support RAID 0, 1, 5, 10 |
| DIO | 1 x 8-bit GPIO |
| MIO | 1 x PS/2 Header 1 x LPT Header |

Mechanical & Environmental

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| Operating Temp. | 0°C ~ 60°C (32°F ~ 140°F) |
| Storage Temp. | -20°C ~ 80°C (-4°F ~ 176°F) |
| Operating Humidity | 5% ~ 90% Relative Humidity, Non-condensing |
| Weight | 1.45lbs (0.65kg) |
| Power Requirement | +12V/+5V/5VSB/+3.3V/-12V |
| Power Mode | AT/ATX (Default Setting: ATX) |
| Dimension (L x W) | 9.6" x 9.6" (243.84mm x 243.84mm) |

Ordering Information

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| Ordering Information | 71882-IA LGA 1700 socket supports 12th/13th Gen Intel® Core™ i9/i7/i5/i3 Processors Micro ATX Motherboard with Intel® R680E PCH |
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