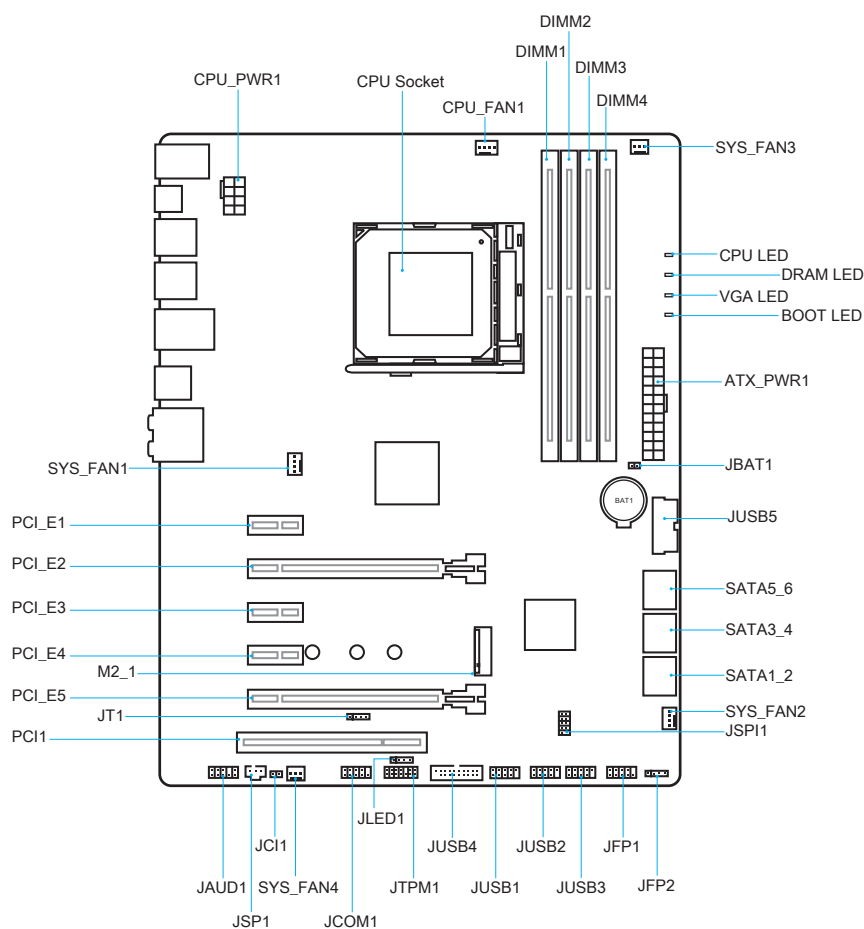


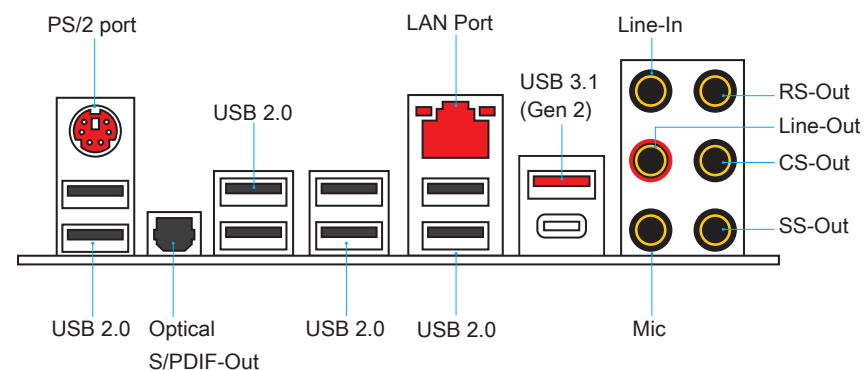
970A GAMING PRO CARBON

(MS-7992v1.0)
ATX Motherboard

Motherboard Components Overview



Rear I/O Panel



Motherboard Specification

CPU Support

- Supports AMD® FXTM/ Phenom™ II/ Athlon™ II and Sempron™ processors for the AM3/ AM3+ socket

Hyper Transport

- Hyper Transport 3.0 up to 4.8 GT/s

Chipset

- North Bridge: AMD® 970 chipset
- South Bridge: AMD® SB950 chipset

Memory Support

- DDR3 2133(O.C.)/ 1866/ 1600/ 1333/ 1066 DRAM (32GBMax)
- 4 DDR3 DIMMs/ 2 channels

Expansion Slots

- 2x PCIe 2.0 x16 slots
- 3x PCIe 2.0 x1 slots
- 1x PCI slot

Storage

- 6 SATA 6Gb/s (SATA1~6) ports by AMD SB950
- 1x M.2 ports, supports PCIe 2.0 x4 and SATA 6Gb/s standards, 4.2cm/ 6cm/ 8cm length SSD cards*

* M.2, SATA and PCIEX1 ports maximum support 1x M.2_PCIe + 6x SATAs or 1x M.2_SATA + 5x SATAs. Please refer to M.2 slots with examples of various combination possibilities

USB

- 4 USB 3.1 Gen 1 by ASMEDIA/ASM1143 B02-011430C-AD0
- 2 USB 3.1 Gen 2 by ASMEDIA/ASM1143 B02-011430C-AD0
- * 1x USB 3.1 Gen2 Type-A (SuperSpeed USB 10Gbps) port on the back panel
- * 1x USB 3.1 Gen2 Type-C port on the back panel

Motherboard Specification

RAID

- SATA1~6 support AMD® Storage Technology (RAID 0/ 1/ 5/ 10) by AMD® SB950

Audio

- Realtek® ALC1150 Codec
- 7.1-Channel High Definition Audio
- Supports S/PDIF output

LAN

- 1x Intel® Lan INTEL/WGI211AT Gigabit LAN controller

Back Panel Connectors

- 1x PS/2 keyboard/ mouse port
- 8x USB 2.0 ports
- 1x USB 3.1 Gen2 Type-A (SuperSpeed USB 10 Gbps) port
- 1x USB 3.1 Gen2 Type-C port
- 1x Optical S/PDIF OUT connector
- 1x LAN (RJ45) port
- 6x Audio Jacks

Internal Connectors

- 1x 24-pin ATX main power connector
- 1x 8-pin ATX 12V power connector
- 6x SATA 6Gb/s connectors
- 3x USB 2.0 connectors (supports additional 6 USB 2.0 ports)
- 2x USB 3.1 Gen 1 connectors (supports additional 4 USB 3.1 Gen 1 ports)
- 1x 4-pin CPU fan connector
- 2x 4-pin system fan connectors
- 2x 3-pin system fan connectors
- 1x Front panel audio connector
- 1x TPM module connector
- 1x Chassis Intrusion connector
- 1x Serial port connector

I/O Controller

- FINTEK/F71878AD Controller Chip

Hardware Monitor

- CPU/System temperature detection
- CPU/System fan speed detection
- CPU/System fan speed control

BIOS Features

- 1x 64 Mb flash
- UEFI AMI BIOS
- ACPI 5.0, PnP 1.0a, SM BIOS 2.7, DMI 2.0
- Multi-language

Special Features

- PCI Express 2.0 Support
- USB 3.1 Gen2 (SuperSpeed USB 10 Gbps) Ready
- M.2 Ready
- Nahimic Audio

Enthusiast GAMING features

- Audio Boost 3
- Game Boost
- AMD CrossFire & NVIDIA SLI
- GAMING APP
- Optimized Thermal Design
- MSI Exclusive features
- Click BIOS 5
- Military Class 4
- Command Center
- EZ Debug LED
- Live Update 6

Form Factor

- ATX Form Factor
- 30.5 cm x 24.3 cm