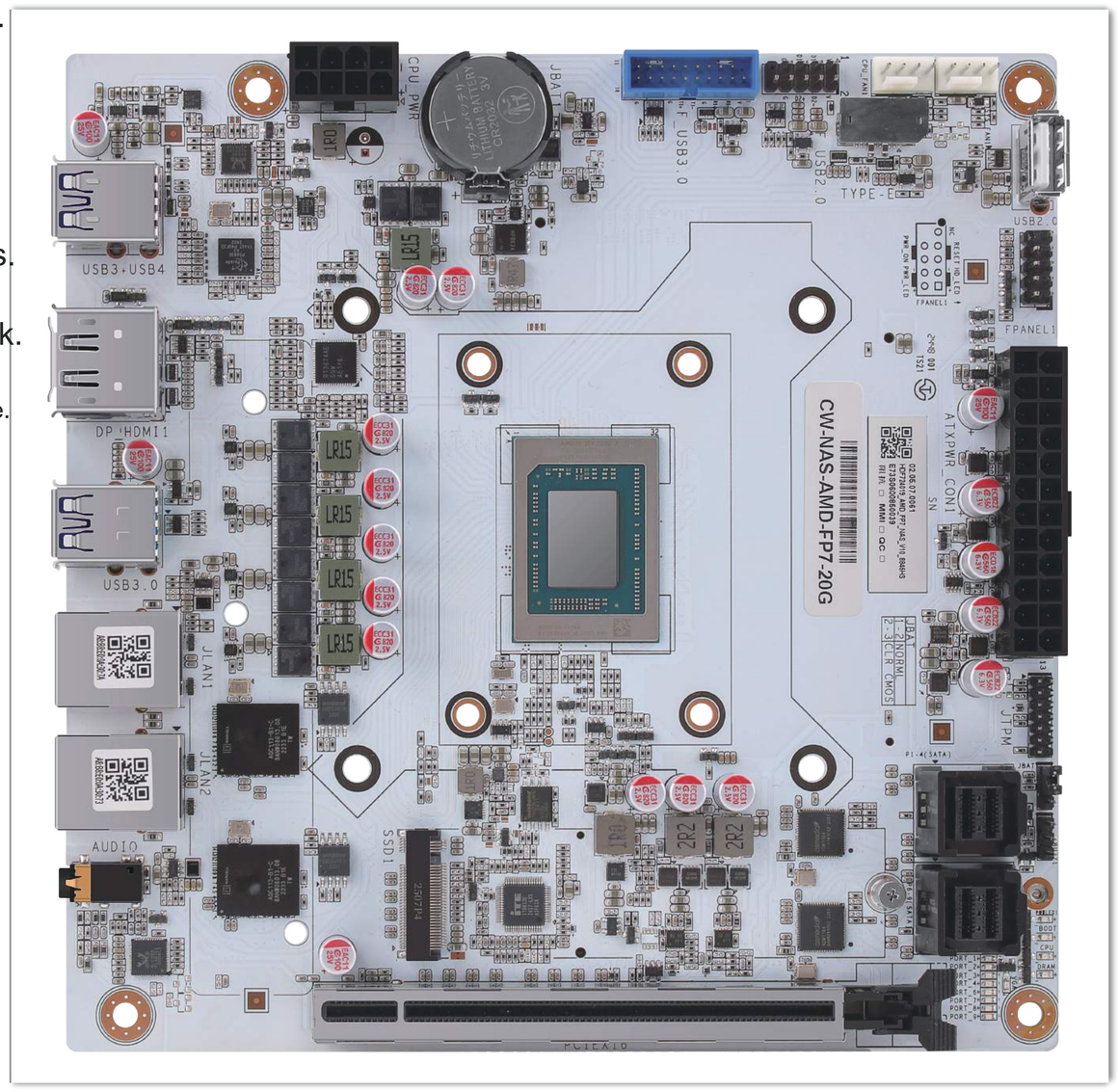
The pioneer of multi-port mini PCs

Motherboard Core Features:

- Equipped with AMD Ryzen™ 7 8845HS processor, Zen4 architecture, 8 cores and 16 threads.
- 17cm × 17cm | ITX form factor, compatible with LGA1700 series CPU coolers.
- AMD Ryzen™ AI NPU with up to 16 TOPS performance.
- 1 x PCIe x16 slot with PCIe 4.0 x8 signal.
- 2 x SFF-8643 ports with one-to-four cables, expandable to 8 SATA 3.0 signals.
- 2 M.2 NVMe SSD slots (PCIe 4.0 x4), 2280 size, one on front and one on back.
- Dual-channel SO-DIMM DDR5 laptop memory slots, default support for 5600MHz, backward compatible.
- 2 RJ45 10 Gigabit Ethernet ports (AQC113-B1-C) with auto-negotiation for 1G/2.5G/5G/10G speeds.
- Triple display output: HDMI + DisplayPort + Type-C, supporting 4K and 8K resolutions.
- 1 Type-C USB4 port with 40Gbps speed.
- 3 USB 3.0 Type-A ports.
- 1 USB 3.0 female header and 1 Type-E female header supporting panel cable connection.
- Built-in 1 USB 2.0 header, supporting USB encryption and some system boot applications.
  1 3.5mm combo audio jack supporting microphone input or audio output.

Model :CW-N7-NAS-AMD-FP7-20G



Specifications:

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Features	- White PCB - 8-layer high-density moisture-resistant fiber circuit board - Full protection (supports all USB, audio, and network interfaces)
CPU	- AMD RyzenÊ 7 8845HS processor - Zen4 architecture with 8 cores and 16 threads - Turbo frequency up to 5.1 GHz
RAM	- Supports laptop SO-DIMM DDR5 memory technology - 2 x SO-DIMM DDR5 memory slots - DDR5 supports 5600MHz - Maximum capacity of a single module is 48GB, total 96GB for two modules
TDP	- Base power consumption 45W, configurable thermal design power (cTDP) 35-54W
Storage	- 2 x M.2 NVMe PCIe 4.0 x4 slots (2280) - 2 x SFF-8643 interfaces, with 2 ASM1164 chips for expansion (expandable to 8 SATA 3.0 signals)
NIC	2 x 10G RJ45 10 Gigabit Ethernet ports (AQC113-B1-C)
GPU	- AMD Radeon 780M, 12 cores, GPU frequency 2700 MHz
Audio	- 1 * 3.5mm combo audio jack with REALTEK ALC269 chipset
Display	- HDMI 2.1 port supports 4K 3840×2160 @ 120Hz 8K 7680×4320 @ 60Hz - DisplayPort 2.1 port supports 4K 4096×2160 @ 240Hz 8K 7680x4320 @ 60Hz - Type-C port supports 8K 7680x4320 @ 60Hz
SIZE	170mm × 170mm, standard ITX form factor
Structure	- Mini-ITX form factor: 6.7 in × 6.7 in (17.0 cm × 17.0 cm) - Solid capacitor design
Power	- ATX 24Pin + 8Pin (can also work with a standard 4Pin power supply)
OS	- Supports Microsoft® Windows 10/11 64-bit - Compatible with Linux *EFI mode only

Specifications:	
Front I/O Ports	- 1 * USB4.0(Type-C 40Gbps) - 3 * USB3.2 Gen1 5Gbps - 1 * DP2.1 - 1 * HDMI2.1 - 2 * 10G RJ45 Ethernet ports (AQC-113-B1-C) - 1 * 3.5mm combo audio jack
Internal I/O Ports	- 1 * 4Pin CPU FAN - 1 * 4Pin SYS FAN - 1 * 8Pin ATX CPU power (can accept 4Pin or 8Pin) - 1 * 24Pin ATX motherboard power - 2 * SO-DIMM DDR5 memory slots - 2 * M.2 NVMe PCIe 4.0 x4 2280 SSD slots - 2 * SFF-8643 interfaces - 1 * PCIe x16 slot (PCIe 4.0 x8 signal) - 1 * USB 2.0 header (vertical, straight) - 1 * Motherboard battery socket - 1 *Type-E female header - 1 * USB 2.0 pin header - 1 * USB 3.0 female header - 1 * JTPM header - 1 * 3Pin buzzer header - 1 * 3Pin JBAT header (clears CMOS) - 1 * Power switch header (F_PANEL)

Source factory for network security and industrial PCs

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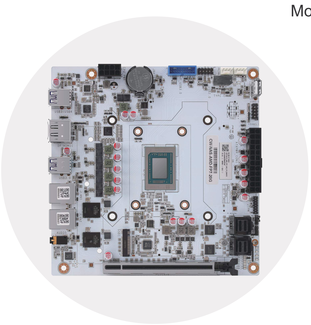
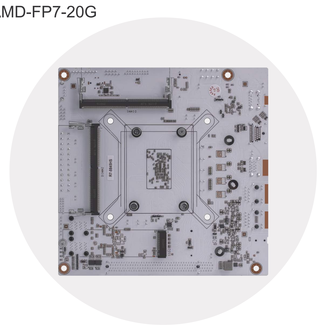
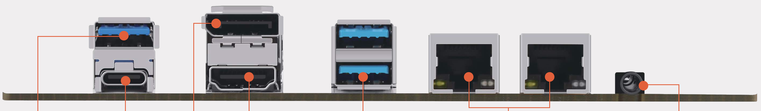
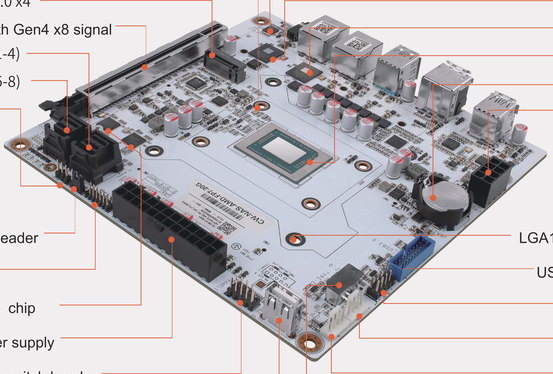
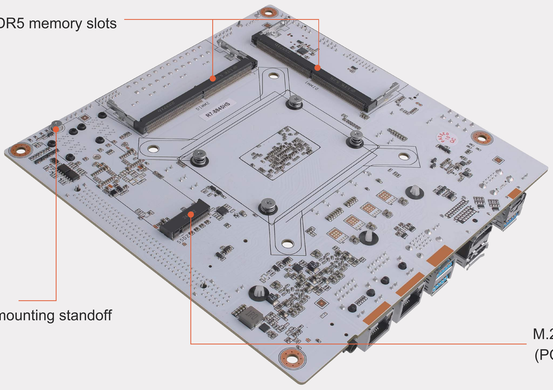
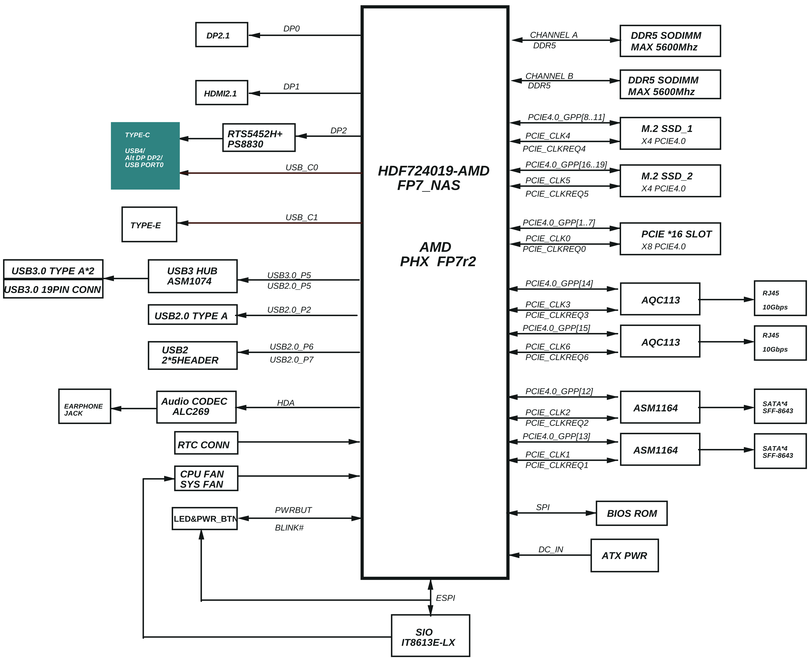




I/O Overview







PCIe Resource Block Diagram