

## SIM0-7610

Intel® Standard ATX Industrial Motherboard

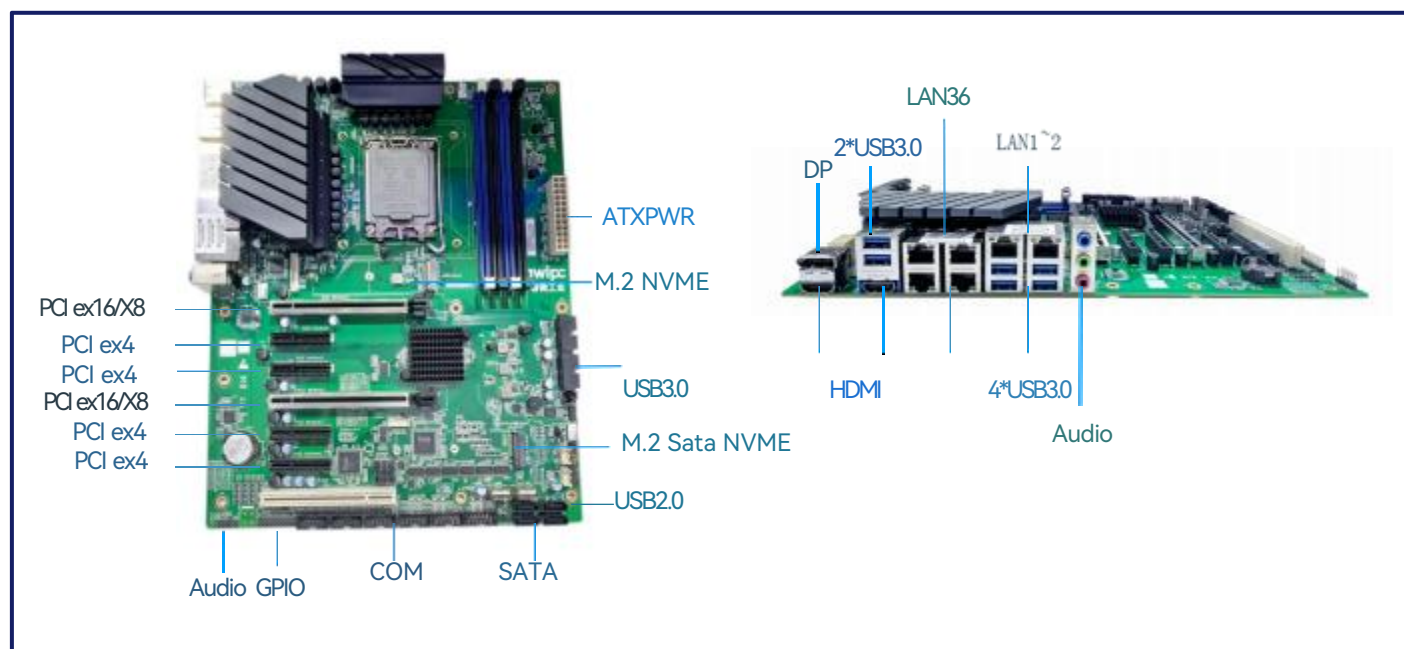


- Supports Intel LGA1851 socket for Gen15 CPUs with TDP up to 125W
- 4x DDR5 U-DIMM slots, max 196GB capacity, ECC supported
- Expansion slots: 6x PCIe + 1x PCI
- 14x USB 3.0 high-speed ports for HD video device connectivity
- Quad display / 4x SATA / 2x M.2 / 18x USB / 6x COM
- Industrial-grade port protection against ESD and power surges, ensuring system stability
- 6x industrial Intel LAN ports for high-speed, reliable data transfer
- Optimized slot/layout design prevents card interference, enabling flexible industry-specific expansion
- PCIe 5.0 support for dual high-performance GPUs, ideal for AI/deep learning and machine vision

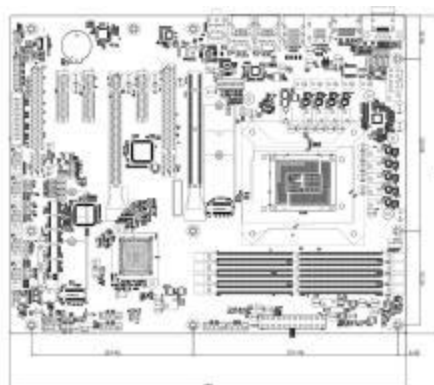
## Product Specification

Processor	Supports Intel LGA1851 socket Gen15 CPU, TDP up to 125W
Chipset	Intel® W880 or W880E, supports vPro
Memory	4x DDR5 UDIMM memory slots, dual-channel, ECC supported, single slot max 48GB, total max 192GB, frequency up to 6400
Integrated Graphics	Integrated Intel GPU (varies by CPU)
Display Output	Quad output DP+HDMI+HDMI+VGA (configurable) HDMI: 3840×2160@60Hz   DP: 5120×2160@60Hz   VGA: 1920×1080@60Hz
Storage	4x SATA 3.0 (6Gbps) Ports, supports SATA Raid 0/1/5/10 Two M.2 2242/2280 Key-M slots support NVMe (M2-KEYM2 supports SATA/NVMe auto-switching)
Audio	Rear: MIC-In, Speaker-Out, Line-In triple audio jacks; Front panel: onboard audio header (F_Audio)
Network	6x Intel high-speed Ethernet ports: LAN1: 219LM; LAN2-6: i210AT.
USB	10x USB 3.2 Type-A (6 directly from rear I/O, 4 via 2x onboard USB 3.0 headers). 2x vertical USB 2.0 ports (for USB dongles); 2x USB 2.0 headers (reserved for chassis front-panel expansion). Front-panel USB headers F_USB1/F_USB2 are mutually exclusive to accommodate different cable spacings.
Serial Ports	6x serial ports (COM1&2: RS232/422/485; COM3-6: RS232)
Power Output	1x 16-bit isolated digital I/O (with +5V power and ground)
Expansion Power Output	1x eSPI bus (optional)
TPM/TCM Module	Onboard encryption chip SLB9670 (TPM 2.0 supported, optional/by default not populated)
Power Supply	ATX power supply, supports ATX/AT power modes Front-panel headers FPANEL1/FPANEL2 are mutually exclusive for different cable spacings
Expansion Slots	2x PCIe x16 slots (x8 signal, PCIe 5.0, max 32GB/s). 1x PCIe x4 slot (PCIe 4.0, max 32GB/s). 2x PCIe x4 slots (PCIe 4.0, max 8GB/s). 1x PCIe x4 slot (x1 signal, PCIe 4.0, max 2GB/s). 1x PCI slot.
Others	One-key system recovery supported
Operating Temp. & Pressure	Operating environment: 0°C–60°C, 10%–85% RH, 85–105kPa
Storage Temp. & Pressure	Storage environment: -40°C–85°C, 5%–95% RH (at 40°C), 85–105kPa
Watchdog	255-level programmable timer (seconds/minutes), supports timeout interrupt/system reset
BIOS	AMI UEFI BIOS
Supported OS	Win10 x64, Win11 x64, Linux Ubuntu 22.04
PCB color	Green solder mask
PCB Size (L×W)	305mm × 244mm

## Product Diagram



## Product Dimensions



## Product Selection

Model	Chipset	Memory	Display	Storage	USB3	USB2	COM	LAN	PCI	PCIe
SIM0-7610	W880	4 DDR5	4(4)	4SATA	14	4	6	6	1PCI	6PCIe