POLYHEX

Embedded Motherboard Based on Intel® N-series N100 Processor

Main Features:

- Intel® N-series N100 Processor
- 2 x RTL8111H Gigabit Network and 2 x COM Ports (COM1, 2 support RS232/485)
- 1 x DP, 1 x HDMI, 1 x VGA, 1 x TYPEC
- 1 x SATA, 4 x USB2.0, 2 x USB3.0, 1 x TYPEC
- 1 x DDR5 SODIMM, 4800 MT/s, 32GB Memory
- 1 x M.2 SSD (NGFF/PCIE adaptive), 1 x M.2_WIFI, 1x M.2_5G, WIFI/4G, DC12V

Specification:

Processor	CPU	Intel® N-series N100 Processor
	Chipset	Intel® N-series N100
	BIOS	AMI 128M BIOS, ACPI supported, auto power on
Memory	Type	DDR5 4800MHz
	Capacity	Up to 32GB
	Slot	1 x DDR5 SODIMM
Display	Graphics	CPU integrated (performance varies depending on CPU)
	HDMI	1 x HDMI
	DP	1 x DP
	VGA	1 x VGA (DP, HDMI optional)
	Type-C	1 x USB Type-C support DP1.4a Alt. Mode
	Multi Display	HDMI/DP/VGA/TYPEC, supports synchronous/asynchronous triple display
Storage	SATA	1 x SATA III 6Gb/s
	M.2	1x M.2 SSD (NGFF/PCIE self-adaptive)
Network	RJ45	2 x Realtek RTL8111H Gigabit network
	WIFI	1 x M.2_WIFI interface, 1 x MPE (4G/WIFI)
	5G	1 x M.2_5G interface, 1 x SIM
USB	USB2.0/3.0	External 3 x USB2.0 + 2 x USB3.2 Gen2
Serial Port	Serial Port	2 x COM (COM1, 2 support RS232/485)
Expansion	GPIO	1 x GPIO interface
Hardware Monitoring	Watchdog	4~255 seconds watchdog timer
	Fan	SYS fan speed detection and intelligent control (optional)
Hardware Encryption	TPM	TPM2.0 hardware encryption (optional)
Power	DC_IN	DC 12V, DC head 5.5*2.5mm
Environmental	Operating Temp.	-20~60°C
	Operating Humidty	0%~90% RH, Non-condensing
	Storage Temp.	-20~60°C
	Storage Humidity	0%~90% RH, Non-condensing
PCB dimension	Size	120mm x 120mm

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Beyond the Embedded Deployment