



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 TYPE-C
- 1 x SATA, 4 x USB2.0, 2 x USB3.0, 1 x TYPE-C
- 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/TYPED, 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 Humidity	0%~90% RH, Non-condensing
	Storage Temp.	-20~60°C
	Storage Humidity	0%~90% RH, Non-condensing
PCB dimension	Size	120mm x 120mm

ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, always delivers best-in-class embedded computing solutions based on both ARM and X86 architecture, including hardware customization and software debugging etc. Partnered with silicon vendors like Intel, NXP, ST, Rockchip and so on, we have earned trust from clients worldwide. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

