**POLYHEX**
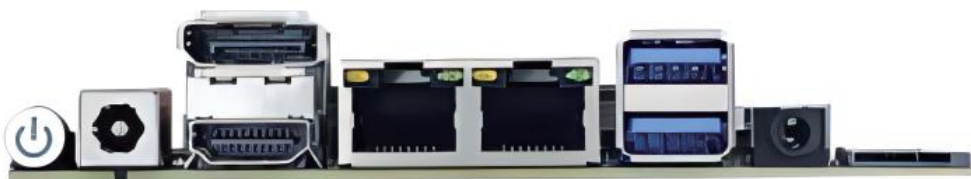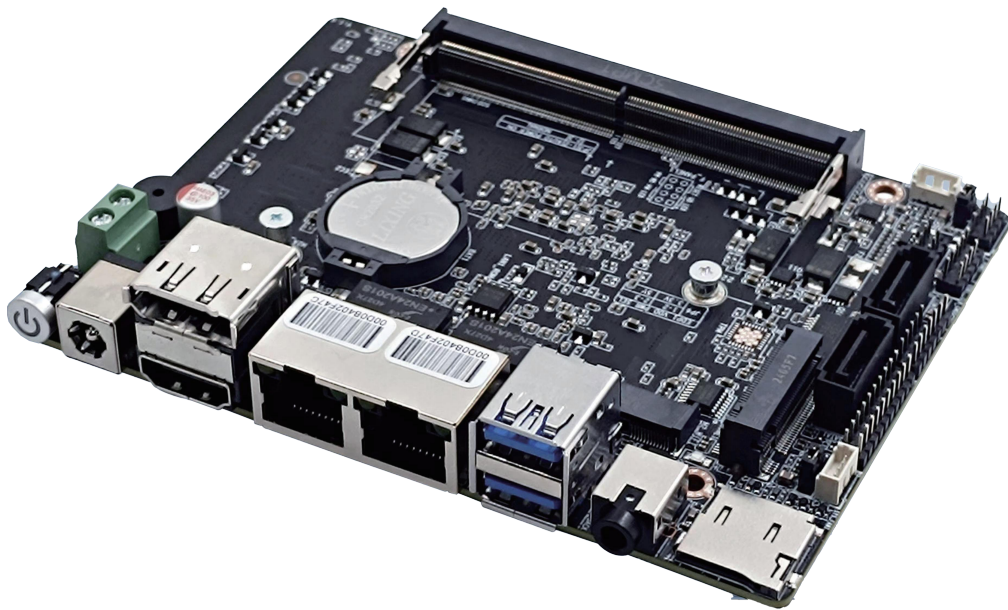
# Embedded Motherboard Based on Intel® N-series N100 Processor

## Main Features:

- Intel® N-series N100 Processor
- 1 x DDR5 SODIMM, 4800MHz, 32GB
- 1 x DP + 1 x HDMI + 1 x EDP, supports simultaneous and asynchronous triple display output
- 2 x Intel I226 2.5G high-speed network cards, 1 x J_COM
- 2 x USB3.2 Gen2, 4 x USB2.0
- 1 x M.2_NVME, 1 x M2_WIFI, TF card, 1 x SATA-IO, DC19V

## Specification:

| | |
|---|---|
| CPU | Intel® N-series N100 Processor |
| Chipset | Intel® N-series N100 |
| Memory | 1 x DDR5 SODIMM, 4800 MT/s, 32GB |
| Graphics | Dependent on CPU |
| Display Output | HDMI+DP+EDP |
| Multi-Display | Triple Display |
| Storage | 1 x SATA-IO (expandable to 4-bay or 2-bay)<br>1 x M.2_NVME<br>2 x SATA Ⅲ |
| Expansion Slots | 1 x M.2_WIFI; 1 x TF Card |
| Audio | Onboard ALC897 audio decoding controller |
| Rear I/O | HDMI: 1 x HDMI interface, maximum resolution 4096 x 2160@60Hz<br>DP: 1 x DP interface, maximum resolution 4096 x 2160@60Hz<br>LAN: 2 x Intel i226 2.5G network cards, support Wake-on-LAN, diskless boot<br>USB3.2: 2 x USB3.2 Gen2<br>Audio: 1 x 2-in-1 audio jack<br>DC: 1 x DCIN_19V<br>TF: 1 x TF card slot |
| Onboard I/O | 2 x F_USB2.0 pin headers<br>1 x F_PANEL pin header<br>1 x EDP pin header<br>1 x J_COM pin header<br>1 x CLR_CMOS pin header<br>2 x SYS/CPU_FAN sockets<br>1 x SATA-IO pin header<br>1 x JP3 jumper cap<br>1 x JP6 jumper cap |
| Operating Temperature | -20°C~60°C |
| Humidity | 0%~95% relative humidity, non-condensing |
| Power Supply | DC19V |
| Dimension | 120 x 90mm |

### 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.

**POLYHEX**
Beyond the Embedded Deployment