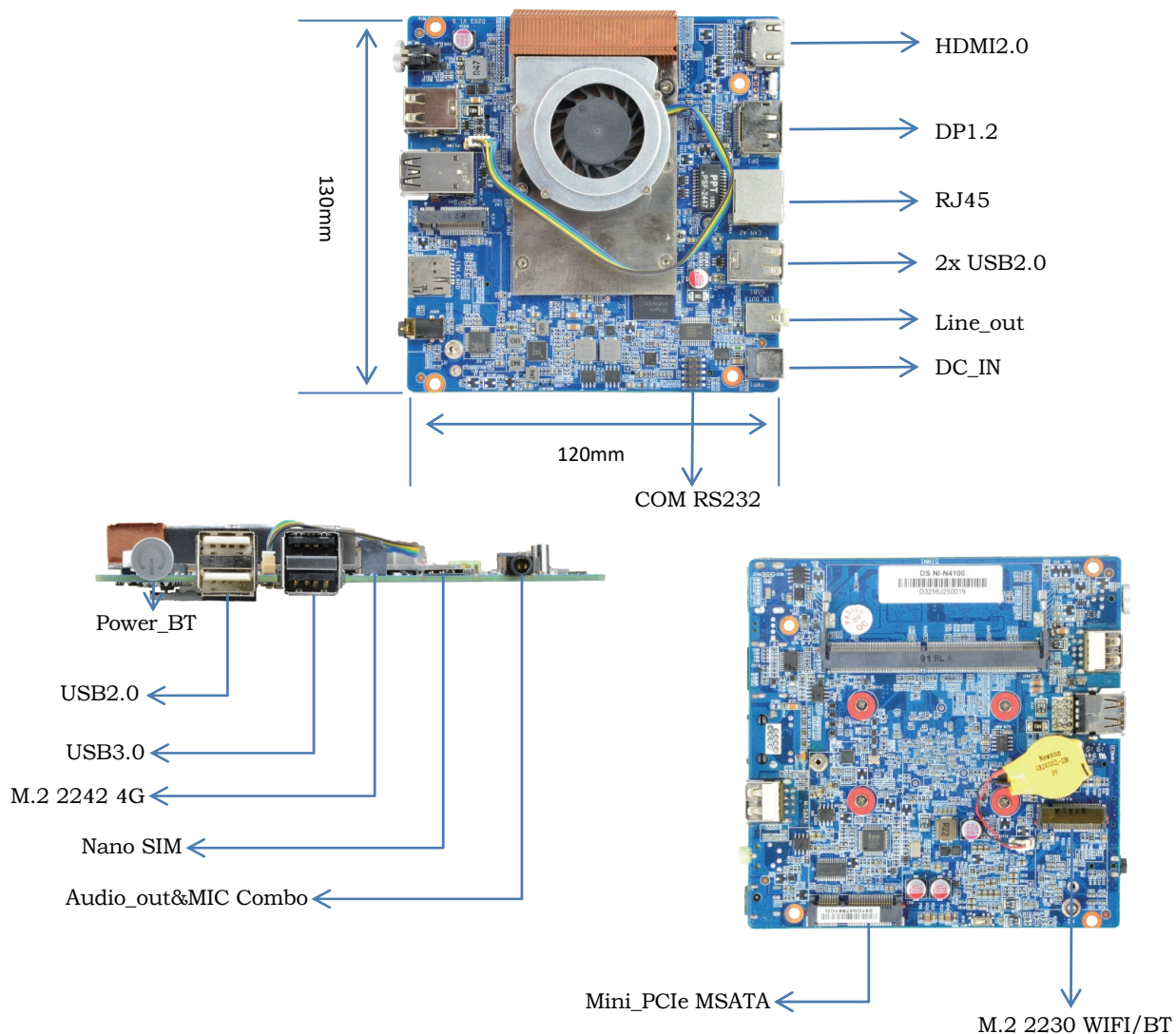




## Nano-ITX Motherboard Based on Intel Gemini Lake

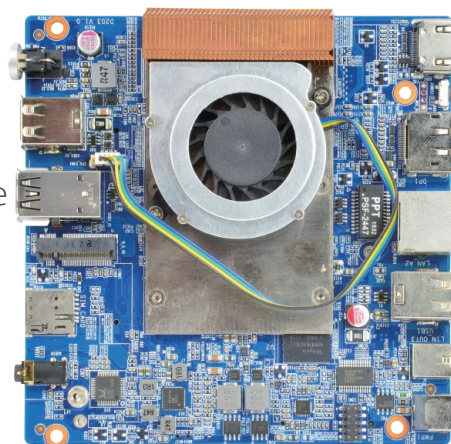
### Description:

EMB-IN4100D-NI1 features ultra-small size and supports Intel Gemini Lake CPU. It is designed with six USB interfaces and HDMI2.0 & DP high-definition digital display output, which support display replication and expansion. Besides, it also provides MSATA SSD storage option and WIFI, 4G expansion functions. At present, EMB-IN4100D-NI1 can be widely used in cloud terminals, intelligent education, business office, smart retail and other fields.



## Features:

- Supports Intel Gemini Lake CPU
- HDMI and DP dual display
- Onboard 4G DDR4 RAM, 64G eMMC storage
- 2x USB3.0+4x USB2.0
- Ultra thin design with cooling fan



## Specifications:

Processor	Pentium Silver J5005 1.5GHz/Turbo 2.8GHz/Quad Core/TDP 10W	
	Pentium Silver N5000 1.1GHz/Turbo 2.7GHz/Quad Core/TDP 6W	
	Celeron J4105 1.5GHz/Turbo 2.5GHz/Quad Core/TDP 10W	
	Celeron J4005 2.0GHz/Turbo 2.7GHz/Dual Core/TDP 10W	
	Celeron N4100 1.1GHz/Turbo 2.4GHz/Quad Core/TDP 6W	
	Celeron N4000 1.1GHz/Turbo 2.6GHz/Dual Core/TDP 6W	
RAM	Type	DDR4 2400
	Max Capacity	Onboard 4G, supports independent SO-DIMM DDR4 memory
Display	Display Core	CPU integration
	Front Output Interfaces	HDMI2.0 (Max: 3840 x 2160@60Hz) DP1.2 (Max: 4096 x 2304@24Hz)
Internet	Control chipset	1x RTL8111H 1000Mbps network, supports network wakeup and PXE guidance
USB	I/O	2x USB3.0 + 4x USB2.0
Storage	eMMC	Onboard 64G eMMC (128G optional)
	Mini_PCl_e	1x MSATA SSD
Audio	Control chipset	Realtek ALC662-VDO, supports 1x Audio_out+1x Mic_IN
Serial Port	COM	Supports 1x COM -RS232 protocol interface
Expansion	TF	Supports 1x standard TF card slot
	M.2	Supports 1x M.2 2230 slot for WIFI/BT module connection
		Supports 1x M.2 2242 slot for 3G/4G module connection
Software Functions	Network Wakeup	Support
	Operating System	Windows7, 8.1, 10; Linux
Power	Input Voltage	DC_IN 12V
Application Environment	Operating Temperature	0°C-40°C
	Storage Temperature	-20°C-80°C
Physical Features	Size	120 x 130mm
Cooling Method	Cooling Method	Direct Blowing Fan, supports temperature control to regulate speed

## ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9 years' experience, 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, Allwinners and so on, we have earned trust from clients worldwide in over 30 countries. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

