**POLYHEX**

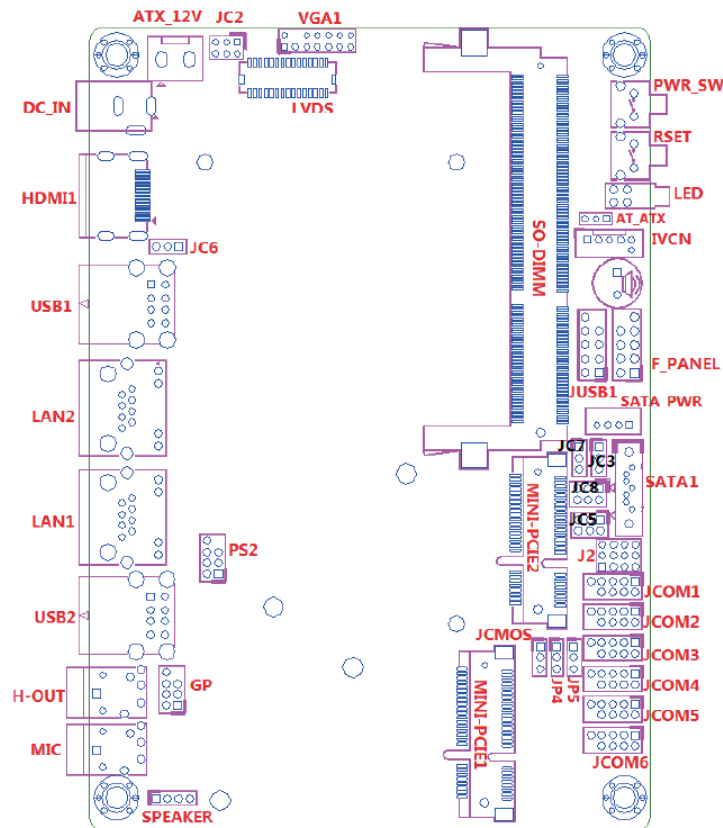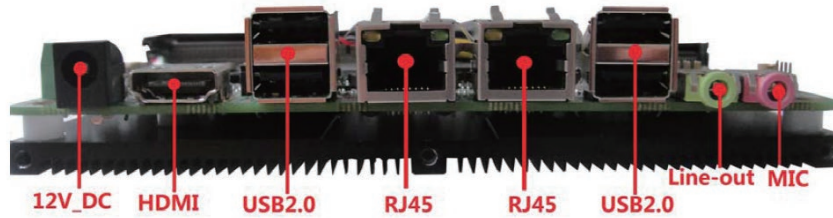# 3.5" Embedded Motherboard Based on Intel N2600/N2800 CPU

Main Features:

- Based on Intel Dual Core Hyper-Threading N2600/N2800 CPU

- 14 x 10 x 2.2cm compact size (3.5")

- Low power consumption (CPU + Chipset 6~9.5W), passive cooling is optional

- Supports VGA, HDMI, LVDS display and dual screen display

- 1 x Standard SATAII Interface, 1 x SSD Interface (Mini-PCIe) (WIFI optional)

- 1 x Standard Mini-PCIe with SIM Card Holder, supports 3G

- 6 x COM Pin (one supports RS485/RS422, one supports 5V/12V and one supports TTL Electric Level)
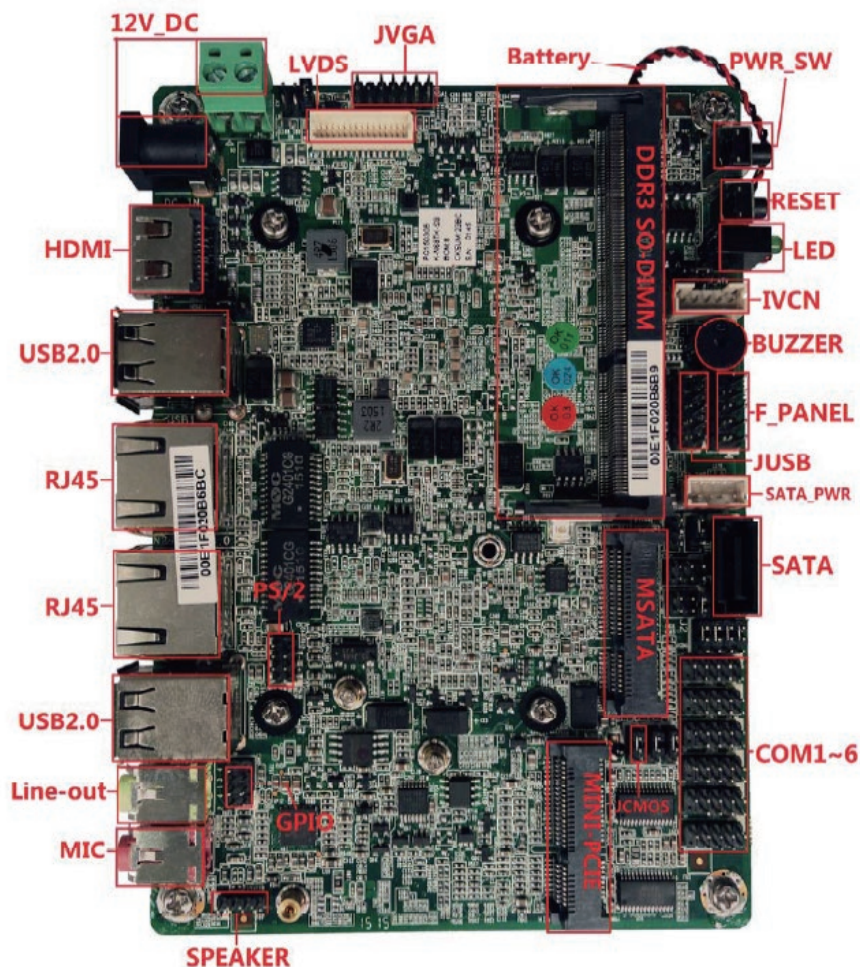
Specification：

Main Parameters	CPU	Intel Dual Core Hyper-Threading N2600/N2800 CPU with 1.6GHz/1.86GHz Main Frequency
		10W, SMD BGA Packaging
	Chipset	Intel NM10 Chipset
	RAM	SO-DIMM, DDR3-800/1066, compatible with DDR3-1333 (Underclocking)
		Up to 4GB RAM
	Bios	SPI AMI EFI Bios
		Support ACPI2.0B, APM1.2, DIM2.0, SMBIOS2.5
Video	Chip	Intel GMA3650，640MHz
	Interfaces	1 x VGA Pin
		1 x HDMI Port
		1 x LVDS Jack
Network	Chip	Realtek RTL8111E
	Speed	10/100/1000Mbps (Adaptive)
	Interfaces	2 x RJ45
Audio	Chip	Realtek HD ALC269Q
	Interfaces	1 x Line-out, 1 x MIC
		1 x 1W/4Ω Power Amplifier Pin (Left, Right)
USB	Speed	USB2.0 480Mb/s
	Interfaces & Pins	4 x USB Port, 2 x Front USB Pin
Storage	SATA	1 x Standard SATAII Interface
	MSATA	1 x SSD Interface (Mini-PCIe), WIFI optional
I/O	Chip	ITE8782F
	Pins	6 x COM Pin (one supports RS485/RS422, one supports 5V/12V and one supports TTL Electric Level)
Others	Mini-PCIe	1 x Standard Mini-PCIe with SIM Card Holder, supports 3G
	PS/2	1 x PS/2 Pin for Mouse and Keyboard
	GPIO	1 x 6 Reserved Programmable Input and Output Control Pins
	Power Input	1 x DC-JACK, 1 x ATX 2-Pin Connecting Terminal, DC 12V Input
PCB	Dimension	140 x 102mm, 6 Layers
Operating System		Windows 7, Unix, Linux
Operating Environment	Temperature	-20~60℃
	Humidity	0~85%RH

SIM

12V_DC | **HDMI** | **USB2.0** | **RJ45** | **RJ45** | **USB2.0** | **Line-out** | **MIC**

ATX_12V JC2 VGA1
DC_IN
LVDS
HDMI1
JC6
USB1
LAN2
LAN1
PS2
USB2
H-OUT GP
MIC
SPEAKER
SO-DIMM
PWR_SW
RSET
LED
AT_ATX
IVCN
F_PANEL
JUSB1 SATA PWR
JC7
JC3
JC8
JC5
SATA1
J2
JCOM1
JCOM2
JCMOS
JCOM3
JP4 JP5
JCOM4
MINI-PCIE2
MINI-PCIE1
JCOM5
JCOM6
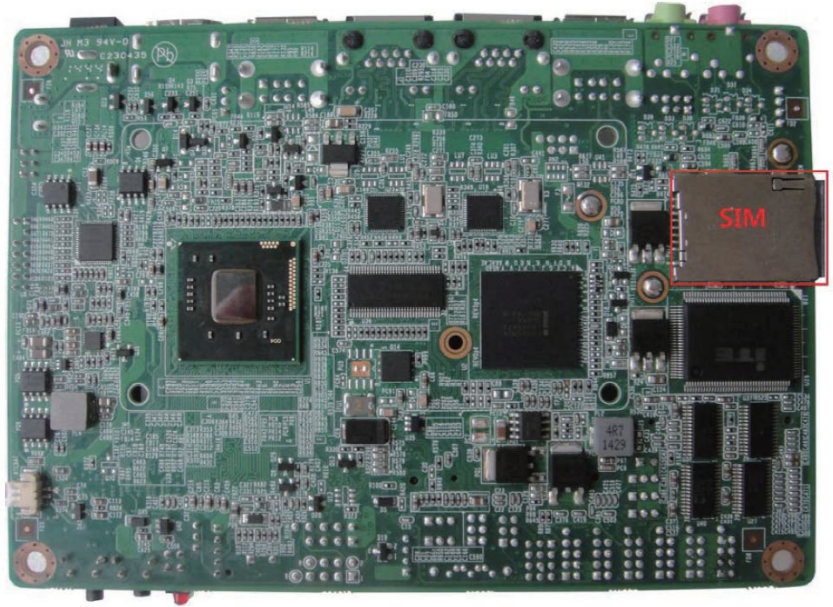
ABOUT POLYHEX

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 venders 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.

POLYHEX
Beyond the Embedded Deployment