

## Introduction:

NANO8F/NANO9F is high speed,fanless motherboard.It is mainly used in financial,retail,medical,all-in-one machines, advertising machines, industrial computers and other fields.

## Main features of the motherboard:

1. You can choose J1800 or J1900 processor,they use Intel Bay trail SOC chip set;
2. The motherboard supports 1\*DDR3 1333/1600 low voltage(1.35V) memory,supports Max.RAM 8GB;
3. The motherboard has on-board VGA,LVDS pin,it supports dual screens display;
4. LVDS supports lightness adjustment;
5. It has on-board 2\*COM pins,supports to take the electric 5V/12V from COM,also supports 1\*RS485;
6. It has on-board 1\*Mini PCI-E,supports WIFI,3G,1\*MSATA,also supports MSATA hard disk;
7. It has on-board ON/OFF button,supports to use patch cord of hardware to “Power On”;
8. It also has 1\*SATA2.0 hard disk interface,you can also choose 2\*1000Mbps RJ45 network ports.

<b>NANO8F motherboard series: (J1800 CPU)</b>			
Model	LAN	USB2.0	USB3.0
NANO8F	1	6	2
NANO8F-2L	2	4	2
Other options:Fan or Fanless			

<b>NANO9F motherboard series: (J1900 CPU)</b>			
Model	LAN	USB2.0	USB3.0
NANO9F	1	6	2
NANO9F-2L	2	4	2
Other options:Fan or Fanless			

<b>Supporting these Intel processors:</b>							
Motherboard Model	Processor Number	Intel Brand	Code Name	Cores	Threads	Processor Base Frequency (GHz)	Max. Turbo Frequency (GHz)
NANO8F	J1800	Celeron	Bay Trail	2	2	2.41	2.58(Burst Frequency)
NANO9F	J1900	Celeron	Bay Trail	4	4	2	2.42(Burst Frequency)

### NANO8F/NANO9F Motherboard Spec.

Form Factor(Size)	NANO-ITX,(L*W)120mm*120mm
Processor	Supporting Intel Celeron J1800/J1900 processor.
Chip Set	Intel Bay trail SOC chip set
Memory	1* SO-DDR3 1333/1600M low voltage(1.35V) memory channel,supports Max.RAM 8GB.
Graphics Card	Integrating Intel HD Graphic GPU; Supporting Dynamic Memory Allocation(DVMT); Supporting HDMI,VGA,LVDS display interfaces,built-in dual channels 24bit LVDS pin header; Supporting dual screens display.
Hard Disk(Storage)	1*SATA2.0 , 1*MSATA interfaces,Max.transmission rate 3.0 Gbps.
Network Card	1*Realtek 8111F 1000Mbps RJ45 LAN port,supports Wake on LAN(WOL).
Audio	Integrating Realtek ALC662 HD digital audio decoder; Supporting Line-out,MIC-in interfaces; It has on-board front pin; It also has on-board 5W power amplifier.
I/O Expansion	6*USB2.0 , 2*USB3.0 . 2*RS232 COM , 1*RS485,supports to take the electric 5V/12V from COM.
System Monitor / Watch dog	Supporting CPU temperature monitor, fan speed,system temperature.
Expansion Bus	1*Mini PCI-E slot,it supports WIFI/3G,1*MSATA interfaces.
BIOS	AMI BIOS,support read only;Power switch,timer switch,remote switch equipment Intelligent identification.
Operating System	Windows 7(64bit,32bit),Windows 8,Windows 10,Linux. The motherboard doesn't support Windows XP.
Operating Environment	Working temperature: -10°C~60°C; Relative humidity:5%~95%,non-condensation.
Power Supply	DC 12V 5A power adapter
Chassis	NANO18,NANO19

### Hardware Features:

Network description	
Network Card Chip	Realtek RTL8111F
Function	10/100/1000Mbps self-adaptive,supports PXE boot and remote wake on Internet.
Interface Type	RJ45
Network card's light definition	Self-defined