

## 产品型号 SBM-S201F-D

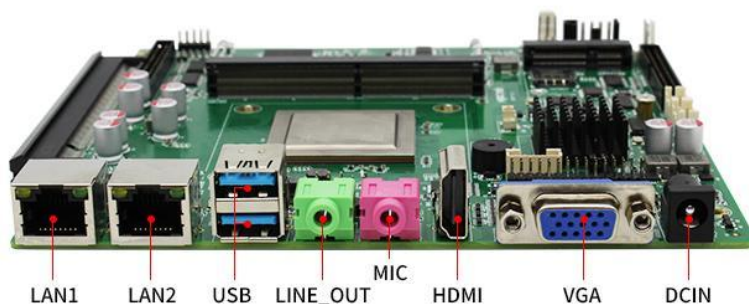
飞腾  
PHYTIUM



UOS

## 产品特性

- ▶ 采用飞腾D2000八核CPU，功耗低至25W
- ▶ 主板集成显示输出，支持一路VGA，HDMI，LVDS
- ▶ 支持2个USB3.0，4个USB2.0，8个COM口
- ▶ 支持1路PCIE X16扩展槽(卧式)
- ▶ 支持Mini PCIE WIFI/蓝牙/4G模块
- ▶ 支持M.2 SSD(Key-M)
- ▶ DC12V电源输入



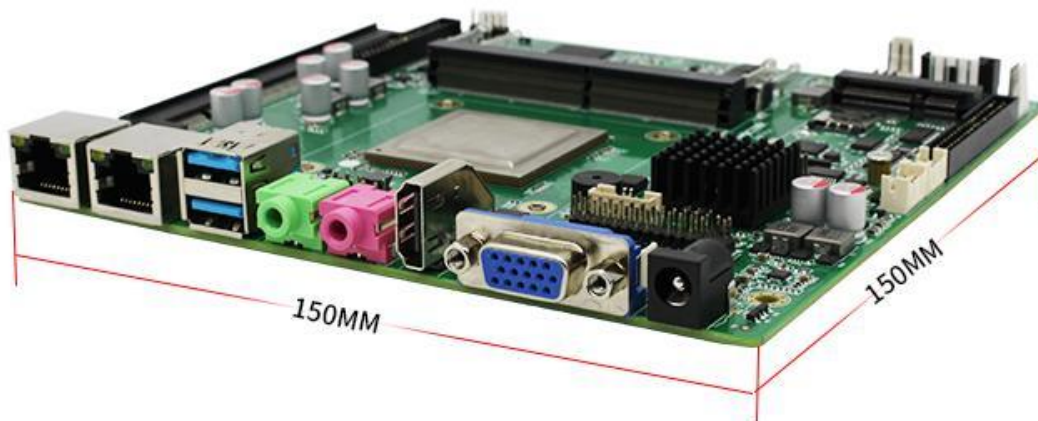
 **技术参数**

**SBM-S201F-D**

CPU	飞腾D2000八核CPU，主频2.3GHz，功耗低至25W
内存	2* SODIMM，DDR4,最大支持32GB
存储	1* SATA3.0, 1* M.2 (SSD)
声卡	ALC662 2 * Line out, 2* Mic in
以太网	2 * Realtek RTL8111H千兆网卡
显示	主板集成显卡，1* VGA，1 * HDMI, 1 * LVDS
COM	8 * RS232串口(COM6可选RS422/RS485)
I/O	2 * RJ45网口
	2* USB3.0 Type-A接口
	4 * USB2.0 (插针形式)
	1 * 3.5mm音频插座(Line out, Mic in)
	1 * 2x5 PIN排针(Line out2, Mic in2)
	1 * Mini PCIE(4G/WIFI)
	2 * 2x18 PIN排针(8个RS232)
	1* Key-M(SSD)
	1* PCI-E3.0 X16槽 (X8信号)
	1 * 1x3 PIN系统风扇座子
	1 * 1x3 PIN CPU风扇座子
	1* 2x5PIN排针 (开机+复位+LED)
	1* 2x3PIN排针 (4路GPIO)
	1* 2x15PIN排针(LVDS接口)
1*DC电源插头	
版型	150*150mm

BIOS	UEFI
系统	Kylin/UOS
供电	DC 12V
工作温度	-10~50 °C
存储温度	-20~60°C

## 外形尺寸



## 内部接口定义

F_PANEL, 2x5, PH=2.0MM					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	PWRBTN+	开关+	2	SATA_LED	硬盘灯+
3	PWRBTN-	开关-	4	GND	硬盘灯-
5	RESET_SW	复位+	6	经1K电阻上拉至 +3.3V	电源灯+
7	GND	复位-	8	GND	电源灯-
9	空PIN		10	GND	

LVDS:2x15,PH=2.0MM, 1*LVDS					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	LCDVDD	可选+5V/+3V, 默认+3V(通过JLV跳选)	2	LCDVDD	可选+5V/+3V, 默认+3V(通过JLV跳选)
3	LCDVDD		4	NC	
5	GND		6	GND	
7	A0M		8	A0P	
9	A1M		10	A1P	
11	A2M		12	A2P	
13	GND		14	GND	
15	CLK1M		16	CLK1P	
17	A3M		18	A3P	
19	A4M		20	A4P	
21	A5M		22	A5P	
23	A6M		24	A6P	
25	GND		26	GND	
27	CLK2M		28	CLK2P	
29	A7M		30	A7P	

JLV:1x3,PH=2.0MM, LVDS电压选择PIN					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	+V3.3S		2	LCDVDD	1-2:+3.3V
3	+V5S				2-3:+5V

IVCN:1x5,PH=2.0MM, LVDS背光排针					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	+V12S		4	BKLT_PWM	亮度调节
2	GND		5	+V5S	
3	ENABKL	背光使能			

COM1_4, 2x18,PH=2.0MM					
NO.	SYMBOL	DESCRIPTION	N O.	SYMBOL	DESCRIPTION
1	DCD1		2	RXD1	
3	TXD1		4	DTR1	
5	GND		6	DSR1	
7	RTS1		8	CTS1	
9	RI1		10	DCD2	
11	RXD2		12	TXD2	
13	DTR2		14	GND	
15	DSR2		16	RTS2	
17	CTS2		18	RI2	
19	DCD3		20	RXD3	

21	TXD3		22	DTR3	
23	GND		24	DSR3	
25	RTS3		26	CTS3	
27	RI3		28	DCD4	
29	RXD4		30	TXD4	
31	DTR4		32	GND	
33	DSR4		34	RTS4	
35	CTS4		36	RI4	

COM5_8, 2x18,PH=2.0MM, 要使用RS422/RS485时需更改硬件					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	NC		2	RXD6	
3	TXD6		4	NC	
5	NC		6	NC	
7	NC		8	NC	
9	NC		10	DCD5	232模式:DCD2 422模式:TX1(B) 485模式:T1/R1(B)
11	RXD5	232模式:RXD1 422模式:TX1(A) 485模式:T1/R1(A)	12	TXD5	232模式:TXD1 422模式:RX1(A)
13	DTR5	232模式:DTR1 422模式:RX1(B)	14	GND	
15	DSR5		16	RTS5	
17	CTS5		18	RI5	
19	DCD7		20	RXD7	
21	TXD7		22	NC	
23	GND		24	NC	
25	NC		26	NC	
27	NC		28	NC	
29	RXD8		30	TXD8	
31	NC		32	GND	
33	NC		34	NC	
35	NC		36	NC	

F_AUDIO,2x5,PH=2.54MM, 1*Line Out, 1*Mic In					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	MIC_L		2	GND	
3	MIC_R		4	NC	
5	LINE_OUT_R		6	MIC_JD	设备插入检测
7	GND		8	NC	
9	LINE_OUT_L		10	LINE_JD	设备插入检测

JUSB1 :2x5,PH=2.0MM, 2*USB2.0					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	USB2PWR1	+5V	2	USB2PWR1	+5V
3	-DATA1		4	-DATA2	
5	+DATA1		6	+DATA2	
7	GND	GND	8	GND	GND


JUSB2 :2x5,PH=2.0MM, 2*USB2.0					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	USB2PWR2	+5V	2	USB2PWR2	+5V
3	-DATA3		4	-DATA4	
5	+DATA3		6	+DATA4	
7	GND	GND	8	GND	GND

SATAPWR,1x4,SATA电源座子					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	+12V		3	GND	
2	GND		4	+5V	

GPIO :2x3,PH=2.0MM					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	+5V	+5V	2	USB2PWR2	GND
3	GPIO1_B1		4	GPIO1_B3	
5	GPIO1_B2		6	GPIO1_B4	

CPU_FAN,1x3,PH=2.54MM,CPU风扇座子					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	GND		3	NC	
2	+12V				

SYS_FAN,1x3,PH=2.54MM,系统风扇座子					
NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	GND		3	NC	
2	+12V				

 **北京总部**

公司电话: +86(0)10 -82331878/82331875

服务热线: 400-800-1871

办公地址: 北京市海淀区双清路3号鸿运大厦1层31078室

工厂地址: 河北省廊坊市三河市燕郊开发区留山大街

创智谷产业园-1#地块-一期-4#-2-101

 了解更多信息: [www.ipccore.com](http://www.ipccore.com) ,或发送邮件到: [ipc@ipccore.com](mailto:ipc@ipccore.com)规格细节如有变更, 恕不另行通知  
东方松柏科技(北京) 有限公司, 版权所有©2018