

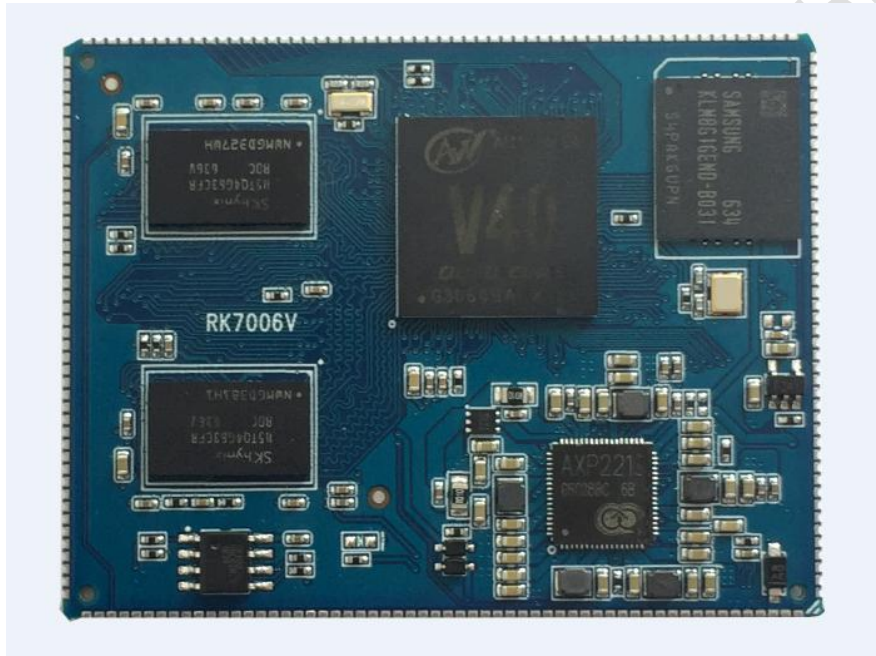
RK7006V-模块规格

V1.0

1、简介

采用 四核 ARM Cortex A7、CPU 主频 1.5GHz、核心板设计方式；信号处理及功能模块分布在显示主板；模块体积小，功能接口完备、很适合于工业智能显示产品应用；整体设计采用功能模块化、稳定、灵活、简便。

·型号：RK7006V



·特点：

- 尺寸：61x47mm、小型化
- CPU 采用 Quad ARM Cortex A7
- DDR3 ：1GB (512MB-2GB)
- 存储：8GB eMMC(4GB/8GB/16GB/32GB 可选)
- 内置 PMU、LDO
- 采用邮票孔 4 边设计、共计 204pins
- 批量化生产、批量化全检
- 支持硬加密、独立 ID 号编辑(定制 ROM 支持)

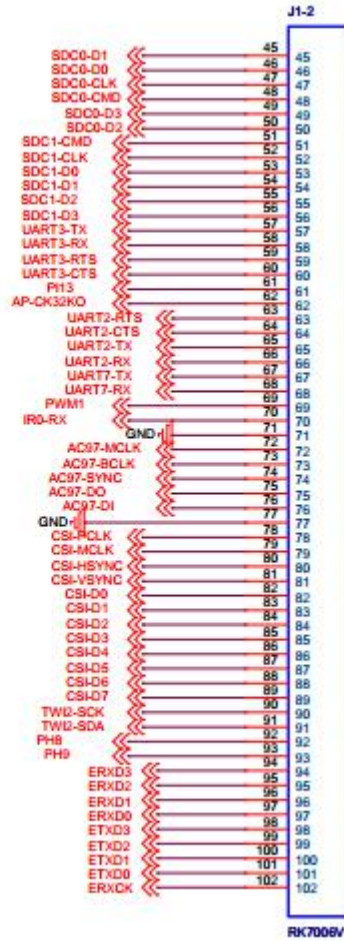
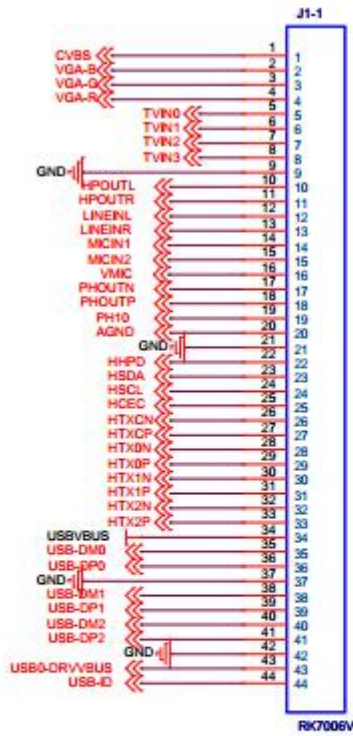
2、管脚定义

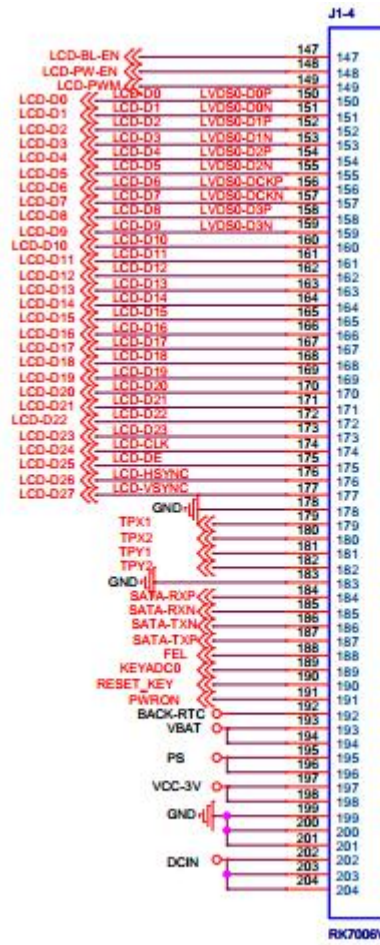
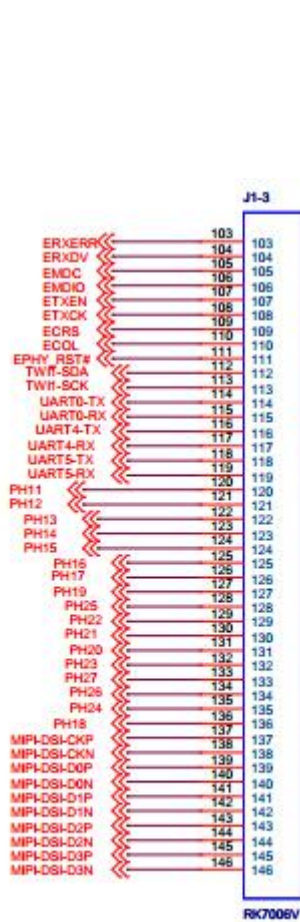
序号	名称	描述	序号	名称	描述
1	CVBS	CVBS OUT	2	VGA-B	VGA OUT
3	VGA-G	VGA OUT	4	VGA-R	VGA OUT
5	TVIN0	TV IN	6	TVIN1	TV IN
7	TVIN2	TV IN	8	TVIN3	TV IN
9	GND	GND	10	HPOUTL	HPO
11	HPOUTR	HPO	12	LINEINL	LINE IN
13	LINEINR	LINE IN	14	MICIN1	MIC
15	MICIN2	MIC	16	VMIC	MIC
17	PHOUTN	PHO	18	PHOUTR	PHO
19	PH10	GPIO	20	AGND	ANGD
21	GND	GND	22	HHPD	HDMI
23	HSDA	HDMI	24	HSCL	HDMI
25	HCEC	HDMI	26	HTXCN	HDMI
27	HTXCP	HDMI	28	HTX0N	HDMI
29	HTX0P	HDMI	30	HTX1N	HDMI
31	HTX1P	HDMI	32	HTX2N	HDMI
33	HTX2P	HDMI	34	USBVBUS	USB0
35	USB-DM0	USB0	36	USB-DP0	USB0
37	GND	GND	38	USB-DM1	USB 1
39	USB-DP1	USB1	40	USB-DM2	USB2
41	USB-DP2	USB2	42	GND	GND
43	USB0-DRVVBUS	USB0	44	USB-ID	USB 0
45	SDC0-D1	SD0	46	SDC0-D0	SD0
47	SDC0-CLK	SD0	48	SDC0-CMD	SD0
49	SDC0-D3	SD0	50	SDC0-D2	SD0
51	SDC1-CMD	SD1	52	SDC1-CLK	SD1
53	SDC1-D0	SD1	54	SDC1-D1	SD1
55	SDC1-D2	SD1	56	SDC1-D3	SD1
57	UART3-TX	UART3	58	UART3-RX	UART3
59	UART3-RTS	UART3	60	UART3-CTS	UART3
61	PI 13	GPIO	62	AP-CK32KO	CLK OUT
63	UART2-RTS	UART2	64	UART2-CTS	UART2
65	UART2-TX	UART2	66	UART2-RX	UART2
67	UART7-TX	UART7	68	UART7-RX	UART7
69	PWM1	PWM	70	IR0-RX	IR
71	GND	GND	72	AC97-MCLK	AC97
73	AC97-BCLK	AC97	74	AC97-SYNC	AC97
75	AC97-DO	AC97	76	AC97-DI	AC97
77	GND	GND	78	CSI-PCLK	CAMERA

79	CSI-MCLK	CAMERA	80	CSI-HSYNC	CAMERA
81	CSI-VSYNC	CAMERA	82	CSI-D0	CAMERA
83	CSI-D1	CAMERA	84	CSI-D2	CAMERA
85	CSI-D3	CAMERA	86	CSI-D4	CAMERA
87	CSI-D5	CAMERA	88	CSI-D6	CAMERA
89	CSI-D7	CAMERA	90	TWI2-SCK	IIC 2
91	TWI2-SDA	IIC 2	92	PH8	GPIO
93	PH9	GPIO	94	ERXD3	ETH
95	ERXD2	ETH	96	ERXD1	ETH
97	ERXD0	ETH	98	ETXD3	ETH
99	ETXD2	ETH	100	ETXD1	ETH
101	ETXD0	ETH	102	ERXCK	ETH
103	ERXERR	ETH	104	ERXDV	ETH
105	EMDC	ETH	106	EMDIO	ETH
107	ETXEN	ETH	108	ETXCK	ETH
109	ECRS	ETH	110	ECOL	ETH
111	EPHY-RST#	ETH	112	TWI1-SDA	IIC 1
113	TWI1-SCK	IIC 1	114	UART0-TX	UART0
115	UART0-RX	UART0	116	UART4-TX	UART4
117	UART4-RX	UART4	118	UART5-TX	UART5
119	UART5-RX	UART5	120	PH11	GPIO
121	PH12	GPIO	122	PH13	GPIO
123	PH14	GPIO	124	PH15	GPIO
125	PH16	GPIO	126	PH17	GPIO
127	PH19	GPIO	128	PH25	GPIO
129	PH22	GPIO	130	PH21	GPIO
131	PH20	GPIO	132	PH23	GPIO
133	PH27	GPIO	134	PH26	GPIO
135	PH24	GPIO	136	PH18	GPIO
137	MIPI-DSI-CK P	MIPI	138	MIPI-DSI-CKN	MIPI
139	MIPI-DSI-D0 P	MIPI	140	MIPI-DSI-D0N	MIPI
141	MIPI-DSI-D1 P	MIPI	142	MIPI-DSI-D1N	MIPI
143	MIPI-DSI-D2 P	MIPI	144	MIPI-DSI-D2N	MIPI
145	MIPI-DSI-D3 P	MIPI	146	MIPI-DSI-D3N	MIPI
147	LCD-BL-EN	LCD	148	LCD-PW-EN	LCD
149	LCD-PWM	LCD	150	LCD-D0/LVDS 0-D0P	LCD/LVDS
151	LCD-D1/LVD	LCD/LVDS	152	LCD-D2/LVDS	LCD/LVDS

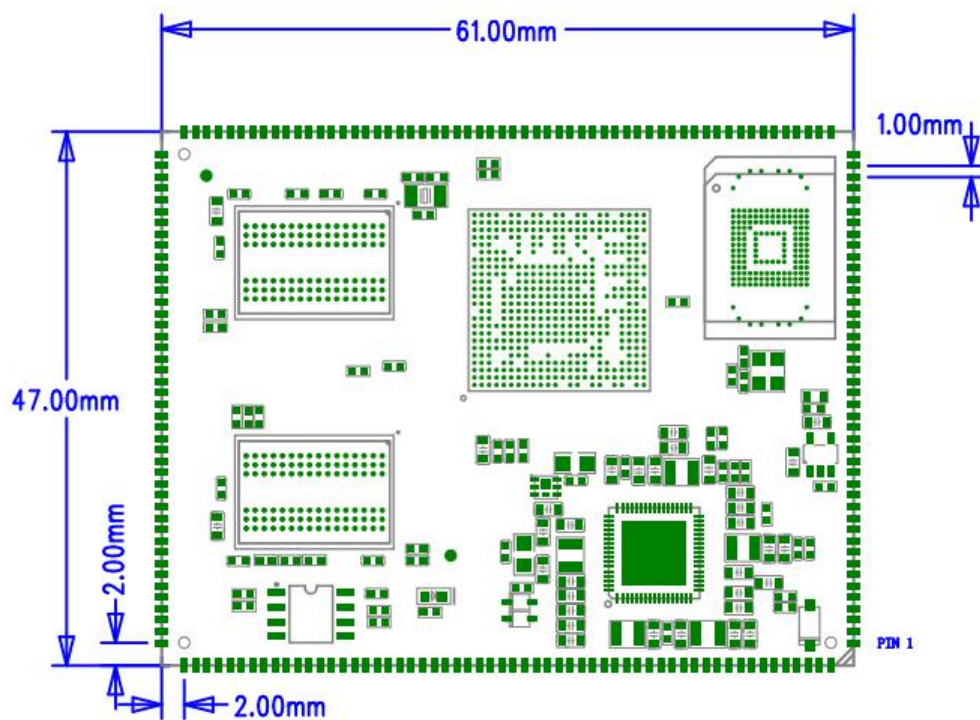
	S0-D0N			0-D1P	
153	LCD-3/LVDS 0-D1N	LCD/LVDS	154	LCD-D4/LVDS 0-D2P	LCD/LVDS
155	LCD-D5/LVD S0-D2N	LCD/LVDS	156	LCD-D6/LVDS 0-DCKP	LCD/LVDS
157	LCD-D7/LVD S0-DCKN	LCD/LVDS	158	LCD-D8/LVDS 0-D3P	LCD/LVDS
159	LCD-D9/LVD S0-D3N	LCD/LVDS	160	LCD-D10/LVD S1-DP0	LCD/LVDS
161	LCD-D11/LV DS1-DN0	LCD/LVDS	162	LCD-D12/LVD S1-DP1	LCD/LVDS
163	LCD-D13/LV DS1-DN1	LCD/LVDS	154	LCD-D14/LVD S1-DP2	LCD/LVDS
165	LCD-D15/LV DS1-DN2	LCD/LVDS	166	LCD-D16/LVD S1-DCKP	LCD/LVDS
167	LCD-D17/LV DS1-DCKN	LCD/LVDS	168	LCD-D18/LVD S1-DP3	LCD/LVDS
169	LCD-D19/LV DS1-DN3	LCD/LVDS	170	LCD-D20	LCD/LVDS
171	LCD-D21	LCD	172	LCD-D22	LCD
173	LCD-D23	LCD	174	LCD-CLK	LCD
175	LCD-DE	LCD	176	LCD-HSYNC	LCD
177	LCD-VSYNC	LCD	178	GND	
179	TPX1	RTP	180	TPX2	RTP
181	TPY1	RTP	182	TPY2	RTP
183	GND	GND	184	SATA-RXP	SATA
185	SATA-RXN	SATA	186	SATA-TXN	SATA
187	SATA-TXP	SATA	188	FEL	U-boot
189	KEYADC0	KEY PAD(up to 6)	190	RESET-KEY	RESET Signal
191	PWRON	POWER Signal	192	BACK-RTC	RTC
193	VBAT	BAT(4.2V)	194	VBAT	BAT(4.2V)
195	PS	OUT	196	PS	OUT
197	VCC-3V3	3.3V OUT	198	VCC-3V3	3.3V OUT
199	GND		200	GND	
201	GND		202	DCIN	5V IN
203	DCIN	5V IN	204	DCIN	5V IN

·管脚图:

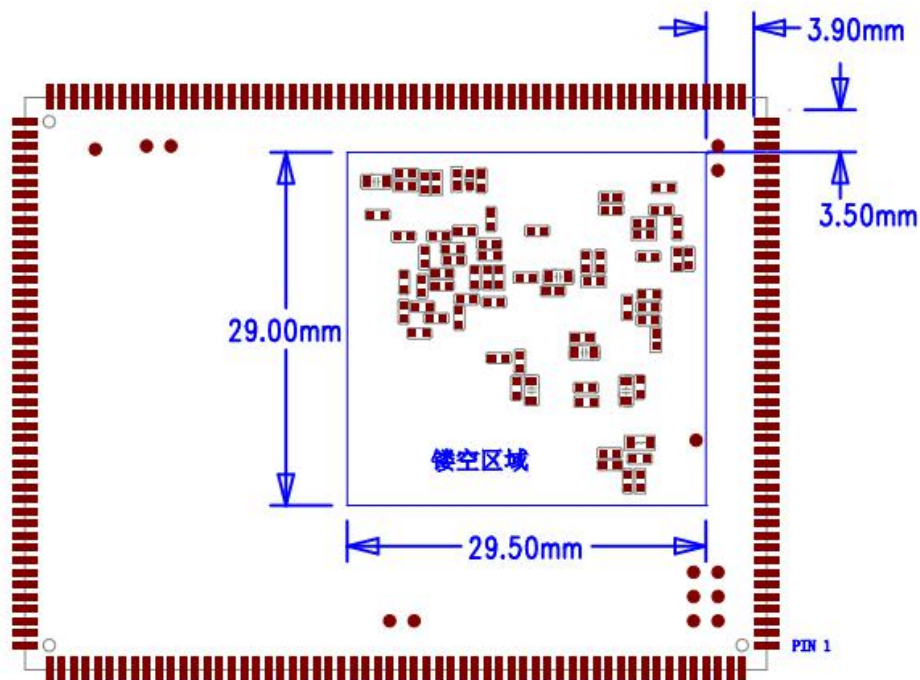




•封装尺寸:



正面图



焊盘长1.2mm, 宽0.6mm

背面图