

ARK1668ED-GPIO复用表

功能模块	管脚名	管脚号	主要功能	复用GPIO	功能配置	
ITU656/601 /CSI-IN_0	ITU656/ 601 0 D0/CSI-DP3	B9	ltu656d0_in0	GPIO39	CSI/ 656/601输入	
	ITU656 /601 0 D1/CSI-DN3	A9	ltu656d0_in1	GPIO40		
	ITU656 /601 0 D2/CSI-DN2	B10	ltu656d0_in2	GPIO41		
	ITU656/ 601 0 D3/CSI-DP2	A10	ltu656d0_in3	GPIO42		
	ITU656 /601 0 D4/CSI-CKP	D10	ltu656d0_in4	GPIO43		
	ITU656/ 601 0 D5/CSI-CKN	C10	ltu656d0_in5	GPIO44		
	ITU656 /601 0 D6/CSI-DN1	D11	ltu656d0_in6	GPIO45		
	ITU656 /601 0 D7/CSI-DP1	C11	ltu656d0_in7	GPIO46		
	ITU656/ 601 0 CLK/CSI-DP0	B11	ltu656d0_inCLK	GPIO47		
	ITU601 HS/CSI-DN0	A11		GPIO48		
ITU601 VS	C15		GPIO49			
ITU656 601IN_1	ITU656 /601 1 D0	G23	ltu601d1_in1	GPIO51	656 /601输入	
	ITU656 /601 1 D1	G22	ltu601d1_in2	GPIO52		
	ITU656 /601 1 D2	F22	ltu601d1_in3	GPIO53		
	ITU656 /601 1 D3	F23	ltu601d1_in4	GPIO54		
	ITU656 /601 1 D4	F24	ltu601d1_in5	GPIO55		
	ITU656/ 601 1 D5	F25	ltu601d1_in6	GPIO56		
	ITU656 /601 1 D6	E25	ltu601d1_in7	GPIO57		
	ITU656 /601 1 D7	E24	ltu601d1_in8	GPIO58		
	ITU656 /601 1 CLK	G24	ltu601d1_inCLK	GPIO59		
	ITU601 HS	G25	ltu601_hsync	GPIO60		
ITU601 VS	H25	ltu601_vsync	GPIO61			
ITU1120/656/601_OUT	ITU1120/ 656 / 601_D0	AE11	itu1120_out0	GPIO177	ITU 1120/656/601输出	
	ITU1120/ 656 / 601_D1	AD11	itu1120_out1	GPIO178		
	ITU1120/ 656/601_D2	AC11	itu1120_out2	GPIO17		
	ITU1120/ 656/601_D3	C23	itu1120_out3	GPIO126		
	ITU1120 / 656/601_D4	B23	itu1120_out4	GPIO127		
	ITU1120 /656/601_D5	A24	itu1120_out5	GPIO128		
	ITU1120 /656/601_D6	B24	itu1120_out6	GPIO129		
	ITU1120 /656 /601_D7	B25	itu1120_out7	GPIO130		
	ITU1120_D8	C24	itu1120_out8	GPIO131		
	ITU1120_D9	C25	itu1120_out9	GPIO132		
	ITU1120_D10	D25	itu1120_out10	GPIO133		
	ITU1120_D11	D24	itu1120_out11	GPIO134		
	ITU1120_D12	D23	itu1120_out12	GPIO135		
	ITU1120_D13	D22	itu1120_out13	GPIO136		
	ITU1120_D14	E22	itu1120_out14	GPIO137		
	ITU1120_D15	E23	itu1120_out15	GPIO138		
	ITU1120 /656/601_CLK	AC10	itu1120_out_clk	GPIO174		
ITU1120 /601_HS	AE10	itu1120_out_hs	GPIO176			
ITU1120 /601_VS	AD10	itu1120_out_Vs	GPIO175			
TTL/LVDS/MIPI OUT	LCD D0/LVDS1_AN	AC19	PANEL_R0/LVDS1_AN		LVDS输出	
	LCD D1/LVDS1_AP	AB19	PANEL_R1/LVDS1_AP			
	LCD D2/LVDS1_BN	AD19	PANEL_R2/LVDS1_BN			
	LCD D3/LVDS1_BP	AE19	PANEL_R3/LVDS1_BP			
	LCD D4/LVDS1_CN	AB18	PANEL_R4/LVDS1_CN			
	LCD D5/LVDS1_CP	AC18	PANEL_R5/LVDS1_CP			
	LCD D6/LVDS1_CKN	AE18	PANEL_R6/LVDS1_CKN			
	LCD D7/LVDS1_CKP	AD18	PANEL_R7/LVDS1_CKP			
	LCD D8/LVDS1_DN	AB17	PANEL_G0/LVDS1_DN			
	LCD D9/LVDS1_DP	AC17	PANEL_G1/LVDS1_DP			
	LCD D10/LVDS2_AN	AD17	PANEL_G2/LVDS2_AN		RGB输出	
	LCD D11/LVDS2_AP	AE17	PANEL_G3/LVDS2_AP			
	LCD D12/LVDS2_BN	AE16	PANEL_G4/LVDS2_BN			
	LCD D13/LVDS2_BP	AD16	PANEL_G5/LVDS2_BP			
	LCD D14/LVDS2_CN	AC16	PANEL_G6/LVDS2_CN			
	LCD D15/LVDS2_CP	AB16	PANEL_G7/LVDS2_CP			
	LCD D16 /LVDS2_CKN	AE15	PANEL_B0 /LVDS2_CKN			
	LCD D17 /LVDS2_CKP	AD15	PANEL_B1 /LVDS2_CKP			
	LCD D18 /LVDS2_DN	AC15	PANEL_B2 /LVDS2_DN			
	LCD D19/LVDS2_DP	AB15	PANEL_B3 /LVDS2_DP			
	LCD D20 /DSI_DN0	AD2	PANEL_B4 /MIPI_ON	GPIO28		MIPI输出
	LCD D21 /DSI_DP0	AE2	PANEL_B5 /MIPI_OP	GPIO29		
	LCD D22 /DSI_DP1	AC3	PANEL_B6 /MIPI_1P	GPIO30		
LCD D23 /DSI_DN1	AD3	PANEL_B7 /MIPI_1N	GPIO31			
LCD DE/ /DSI_CKN	AE3	PANEL_DE /MIPI_CN	GPIO32			
LCD CLK /DSI_CKP	AE4	PANEL_CLK/MIPI_CP	GPIO33			

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	LCD_VS/DSI_DN2	AD4	PANEL_VS/MIPI_2N	GPIO34	
	LCD_HS/DSI_DP2	AC4	PANEL_HS/MIPI_2P	GPIO35	
	DSI_DN3	AC5	MIPI_3N	GPIO36	
	DSI_DP3	AD5	MIPI_3P	GPIO37	
I2C	SCL	AC2	I2C clock	GPIO74	I2C通信 苹果加密IC/触摸屏
	SDA	AC1	I2C data	GPIO75	
EMMC/NAND/SPI	SD0_CMD/SPIO_CSN/NAND_CLE	B22	SD0_CMD		EMMC NAND
	SD0_CLK/SPIO_CLK/NAND_ALE	A22	SD0_CLK		
	SD0_D0/SPIO_D0/NAND_REN	A21	SD0_D0		
	SD0_D1/SPIO_D1/NAND_WEN	B21	SD0_D1		
	SD0_D2/SPIO_D2/NAND_RB	C21	SD0_D2		
	SD0_D3/SPIO_D3/NAND_CEN	D20	SD0_D3		
	SD0_D4/SPI1_CSN/NAND_D0	C20	SD0_D4		
	SD0_D5/NAND_D1	B20	SD0_D5		
	SD0_D6/SPI1_CLK/NAND_D2	A20	SD0_D6		
	SD0_D7/SPI1_RX/NAND_D3	A19	SD0_D7		
	SPI_TX/NAND_D4	B19		GPIO99	
	NAND_D5	C19		GPIO100	
NAND_D6	D19		GPIO101		
NAND_D7	D18		GPIO102		
SD1_CARD	SD1_CMD	AA25	CMD	GPIO103	WIFI
	SD1_CLK	AA24	CLK	GPIO104	
	SD1_DET	AC24	DET	GPIO105	
	SD1_D0	AB25	D0	GPIO106	
	SD1_D1	AB24	D1	GPIO107	
	SD1_D2	Y25	D2	GPIO108	
	SD1_D3	Y24	D3	GPIO109	
UART0	UART0_RXD	AB2	UART0 Rxd	GPIO102	软件调试口
	UART0_TXD	AB1	UART0 Txd	GPIO103	
HUART1	HUART1_RXD	AD20	HUART1 Rxd	GPIO64	蓝牙高速串口
	HUART1_TXD	AE20	HUART1 Txd	GPIO65	
HUART2	HUART2_RXD	AB20	HUART2 Rxd	GPIO66	高速串口（带CAN通信）
	HUART2_TXD	AC20	HUART2 Txd	GPIO67	
HUART3	HUART3_RXD/CANO_RXD	AD25	HUART3 Rxd	GPIO68	高速串口
	HUART3_TXD/CANO_TXD	AE24	HUART3 TXD	GPIO69	
HUART4	HUART4_RXD/CANO_STYB	K3	HUART4_RX	GPIO70	高速串口
	HUART4_TXD/CAN1_RX	L3	HUART4_TX	GPIO71	
HUART5	HUART5_RXD/CAN1_TX	W3	HUART5_RX	GPIO72	高速串口
	HUART5_TXDCAN1_STYB	W2	HUART5_TX	GPIO73	
HUART	HUART_RTS1	AE21	HUART_RTS1	GPIO117	串口流控
	HUART_CTS1	AD21	HUART_CTS1	GPIO118	
	HUART_RTS2	AC21	HUART_RTS2	GPIO119	
	HUART_CTS2	AB21	HUART_CTS2	GPIO120	
	HUART_RTS3	AC25	HUART_RTS3	GPIO121	
USB0	USB0_DN	A17	DN		手机互联/OTG功能
	USB0_DP	B17	DP		
USB1	USB1_DN	B16	DN		播放多媒体
	USB1_DP	A16	DP		
PWM	PWM0(IN/OUT)	D5	PWM0	GPIO139	指示灯
	PWM1(IN/OUT)	C5	PWM1	GPIO140	USB0电源使能
	PWM2(IN/OUT)	B5	PWM2	GPIO141	USB1电源使能
	PWM3(IN/OUT)	A5	PWM3	GPIO142	静音使能
	PWM4(OUT)	AC6	PWM4	GPIO143	背光调节
	PWM5(OUT)	AD6	PWM5	GPIO144	背光电源使能
	PWM6(OUT)	AE6	PWM6	GPIO145	指示灯
PWM7(OUT)	AE7	PWM7	GPIO146	指示灯	
GPIO	GPIO38	AD1	ARM_BACK_DE	GPIO38	倒车检测
	GPIO50	W4	TP_INT	GPIO50	触摸中断
	GPIO110	B4	TP_RST	GPIO110	触摸复位
	GPIO111	A2	G_SCL	GPIO111	I2C通信
	GPIO112	B1	G_SDA	GPIO112	
	GPIO113	B2	HDMI_RST	GPIO113	HDMI 复位
	GPIO114	B3	7116_RST	GPIO114	7116复位
	GPIO115	A3	7116_SCL	GPIO115	I2C通信
GPIO116	A4	7116_SDA	GPIO116		



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	GPIO123	A23	7604_SDA	GPIO123	I2C通信
	GPIO124	D21	7604_SCL	GPIO124	
	GPIO125	C22	7604_RST	GPIO125	7604复位
I2S0_OUT	I2S0_SYNC	W1	I2S0_OUT_SYNC	GPIO78	I2S0输出
	I2S0_MLCK	Y4	I2S0_OUT_MCLK	GPIO79	
	I2S0_BCLK	Y3	I2S0_OUT_BCLK	GPIO80	
	I2S0_DOUT0	Y2	I2S0_DOUT0	GPIO81	
	I2S0_DOUT1	Y1	I2S0_DOUT1	GPIO82	
	I2S0_DOUT2	AA1	I2S0_DOUT2	GPIO83	
I2S0_IN	I2S0_DINO/TCK	AA2	I2S0_DINO	GPIO84	I2S0输入
	I2S0_DINT1/TMS	AA3	I2S0_DIN1	GPIO85	
	I2S0_SYNC/TDI	AA4	I2S0_IN_SYNC	GPIO86	
	I2S0_MLCK/NTRST	AB4	I2S0_IN_MCLK	GPIO87	
	I2S0_BCLK/TDO	AB3	I2S0_IN_BCLK	GPIO88	
I2S1_OUT	I2S1_SYNC	J23	I2S1_OUT_SYNC	GPIO147	I2S1输出
	I2S1_MLCK	J22	I2S1_OUT_MCLK	GPIO148	
	I2S1_BCLK	J24	I2S1_OUT_BCLK	GPIO149	
	I2S1_DOUT0	H22	I2S1_DOUT0	GPIO150	
	I2S1_DOUT1	H23	I2S1_DOUT1	GPIO151	
	I2S1_DOUT2	H24	I2S1_DOUT2	GPIO152	
I2S1_IN	I2S1_DINO	K25	I2S1_DINO	GPIO153	I2S1输入
	I2S11_DINT1	J25	I2S1_DIN1	GPIO154	
	I2S1_IN_SYNC	K24	I2S1_IN_SYNC	GPIO155	
	I2S1_IN_MCLK	K23	I2S1_IN_MCLK	GPIO156	
	I2S1_IN_BCLK	K22	I2S1_IN_BCLK	GPIO157	