

#### **Revision history**

Revision	Release Date	Summary								
1.0	2021/4/14	Initial draft								
2.0	2021/4/27	1: GPIO13 FUN4 change IRout to UART_TXD 2: GPIO16 FUN3 change bledebug0 to PWM_CTRL2								
3.0	2021/5/13	1: Modify LX1 LX2 Definiation 2:Add ECR6600T pinmux								
3.1	2021/6/3	1: Delete ECR6600T ResetB/TestMode Pinmux Function								
4.0	2021/8/21	Delete 32Pin ECR6600 Package								



#### ECR6600 QFN40 MultiFunction

			ECROOOU QFIN40 Multirunction																	
					10 类型		function()		function I		function2		function3		function4		function	function5		n6
40Pin_No (40)	Cell name	Driver	IO Power Domain	Reset input/output		Reset Value	pin mux name	type	pin mux name	type	pin mux name	type	pin mux name	type	pinmux name	type	pinmux name	type	pinmux name	type
1	VDD BAT			P	Vdd_bat1 and Vdd bat2,for RF BG, LP BG/LDO etc															<del> </del>
2	VDD_1p0RF			P	BUCK feedback															
3	GPIO23	4mA	VDDIO_33	wpd			SD_H_DATA1	I/O	GPIO23	I/O	UART1_RTS	0	PWM_CTRL1	0	I2S_TXSCK	I/O	w_active	0		
4	GPIO22	4mA	VDDIO_33	wpd			SD_H_DATA0	I/O	GPIO22	I/O	UART0_TXD	0	PWM_CTRL0	0	I2S_TXWS	I/O	bt_priority	1		
5	GPIO13	4mA	VDDIO_33	wpd			SD_H_CLK	0	GPIO13	I/O	UART2_TXD	0	I2C_SCL	TRI	I2S_RXD	I	dpll_80M_o	0		1
6	GPIO21	4mA	VDDIO_33	wpd			SD_H_CMD	I/O	GPIO21	I/O	UART0_RXD	I	I2C_SDA	TRI	I2S_TXD	0	bt_active	T		
7	GPIO25	4mA	VDDIO_33	wpd			SD_H_DATA3	I/O	GPIO25	I/O	phy_entrx	0	PWM_CTRL3	0	!phy_entrx	I/O	I2C_SDA	TRI		
8	GPIO24	4mA	VDDIO_33	wpd			SD_H_DATA2	I/O	GPIO24	I/O	UART1_CTS	I	PWM_CTRL2	0	I2S_MCLK	I	w_priority	0		
9	GPIO17	4mA	VDDIO_33	wpd			WAKEUP	I	GPIO17	I/O	UART2_RXD	I	SPI1_WP	I/O	PWM_CTRL5	0	I2S_TXWS	I/O	bledebug2	
10	GPIO16		VDDIO_33	wpd			NC	I	GPIO16	I/O	UART1_CTS	I	ir_out	0	PWM_CTRL2	0				
11	XTAL_O			A																
12	XTAL_I			A																
13	VDD_0P8			P	digital power supply															
14	VDD_1P0			P	VDD_1p0,优先考虑不加碰珠,EVK版本需要留个碰珠位置															
15	LX2			P	DCDC POWER Inductance L/ Regulator Power Supply for LDO mode															
16	LX1			P	DCDC POWER Inductance L/for LDO mode NC															
17	POWERKEY		VDDIO_33	Analog	Power Key		POWER_ON/OFF													
18	VDD_BUCK			P	VDD BUCK															
19	VDDIO			P	IO power 1.8V-3.3V															
20	VDD_EFUSE		Typical 1.8V	P	efuse program power .18V															
21	UART0_TXD		VDDIO_33	wpu	数模复用		UART0_TXD	0	GPIO6	I/O	COLD_RESET	0	32K_CLK_OUT		I2S_RXSCK	I/O	XTAL_O_32k	Analog		
22	UART0_RXD		VDDIO_33	wpu	数模复用		UART0_RXD	I	GPIO5	I/O	40M_CLK_OUT	0	ir_out	0	I2S_RXWS	I/O	XTAL_I_32k	Analog		ļ
23	SD_DATA2	8mA	VDDIO_33	wpu			SD_DATA2	I/O	GPIO8	I/O	MSPI_HOLD	I/O								ļ
24	SD_DATA3	8mA	VDDIO_33	wpu			SD_DATA3	I/O_	GPIO7	I/O	MSPI_MOSI	I/O								
25	SD_CMD	8mA	VDDIO_33	wpu			SD_CMD	I/O	GPIO12	I/O	MSPI_WP	I/O								
26	SD_CLK	8mA	VDDIO_33	wpu			SD_CLK	I	GPIO9	I/O	MSPI_CLK	0								
27	SD_DATA0	8mA	VDDIO_33	wpu			SD_DATA0	I/O	GPIO11	I/O	MSPI_MISO	I/O								
28	SD_DATA1	8mA	VDDIO_33	wpu			SD_DATA1	I/O	GPIO10	I/O	MSPI_CS0	0								
29	TRST	4mA	VDDIO_33	wpd			TRST	1	GPIO4	I/O	UART0_RTS	0	SPI1_CS1	I/O	PWM_CTRL4	0	MSPI_CS1	0	bledebug7	
30	TDI	4mA	VDDIO_33	wpd			TDI	I	GPIO3	I/O	UART0_CTS	I	SPI1_MISO	I/O	PWM_CTRL3	0	I2C_SDA	TRI	bledebug6	<del>                                     </del>
31	TDO	4mA	VDDIO_33	wpd			TDO	0	GPIO2	I/O	UARTI_TXD	0	SPI1_MOSI	I/O	PWM_CTRL2	0	I2C_SCL	TRI	bledebug5	<u> </u>
32	TMS	4mA	VDDIO_33	wpd			TMS	I	GPIO1	I/O	UARTI_RXD	I	SPI1_CS0	I/O	PWM_CTRL1	0	I2S_RXD	I	bledebug4	₩
33	TCK	4mA	VDDIO_33	wpd	at the first		TCK	I	GPIO0	1/0	UART2_TXD	0	SPI1_CLK	1/0	PWM_CTRL0	O	I2S_TXSCK	I/O	bledebug3	4 1
34	GPIO18	4mA	VDDIO_33	wpu	数模复用		TestMode	I	ResetB	I/O	UARTI_RTS	0	SPI1_HOLD	I/O	I2C_SCL	TRI	I2S_TXD	0	aux_3/vout_in	Analog
35	GPIO20		VDDIO_33	wpd	数模复用		PWM_CTRL3	0	GPIO20		aux_2/vout_ip	Analog	I2S_MCLK	I/O		_				₩
36	GPIO15		VDDIO_33	wpu	数模复用		BOOTMODE1	I	GPIO15	I/O	ATST_B/aux_1/vout_qn	Analog			PWM_CTRL5	0	I2S_TXWS	I/O		<del></del>
37	GPIO14		VDDIO_33	wpu			BOOTMODE0	I	GPIO14	I/O	ATST_A/aux_0/vout_qp	Analog		<b> </b>	PWM_CTRL4	0	I2S_TXD	0		<del>                                     </del>
38	VDD_DA			P	DA power			<u> </u>				<del>                                     </del>		<del>                                     </del>		-		<u> </u>		<del>                                     </del>
39 40	VDD_PA  LNA			P Analog	PA Power			-		-		<del>                                     </del>	ļ	-		-	<del>                                     </del>	<b> </b>		<del></del>
40	LNA			Anaiog			l	l		l	l	1	i	<u> </u>		<u> </u>	i	l		



#### ECR6600-TS2D QFN32 DCDC MultiFunction

					10 类型		function()		function1	ı	function2		function3		function4		function	5	functions	6	
32Pin_No	Cell name	Driver	IO Power Domain	Reset input/output		Reset Value	pin mux name	type	pin mux name	type	pin mux name	type	pin mux name	type	pinmux name	type	pinmux name	type	pinmux name	type	
1	VDD_BAT			P	Vdd_bat1 and Vdd bat2,for RF BG, LP BG/LDO etc																
2	VDD_1p0RF			P	BUCK feedback																
3	GPIO23	4mA	VDDIO_33	wpd			SD_H_DATA1	I/O	GPIO23	I/O	UART1_RTS	0	PWM_CTRL1	0	I2S_TXSCK	I/O	w_active	0			
4	GPIO22	4mA	VDDIO_33	wpd			SD_H_DATA0	I/O	GPIO22	I/O	UART0_TXD	0	PWM_CTRL0	0	I2S_TXWS	I/O	bt_priority	1			
5	GPIO13	4mA	VDDIO_33	wpd			SD_H_CLK	0	GPIO13	I/O	UART2_TXD	0	I2C_SCL	TRI	I2S_RXD	I	dpll_80M_o	0			
6	GPIO21	4mA	VDDIO_33	wpd			SD_H_CMD	I/O	GPIO21	I/O	UART0_RXD	I	I2C_SDA	TRI	I2S_TXD	0	bt_active	1			
7	GPIO25	4mA	VDDIO_33	wpd			SD_H_DATA3	I/O	GPIO25	I/O	phy_entrx	0	PWM_CTRL3	O	!phy_entrx	I/O	I2C_SDA	TRI			
8	GPIO24		VDDIO_33	wpd			SD_H_DATA2	I/O	GPIO24	I/O	UART1_CTS	I	PWM_CTRL2	O	I2S_MCLK	I	w_priority	<u>(a)</u>			
9	GPIO17			A			WAKEUP	ľ	GPIO17	I/O	UART2_RXD	1	SPI1_WP	I/O	PWM_CTRL5	O	I2S_TXWS	I/O	bledebug2		
10	GPIO16			A			NC	ľ	GPIO16	I/O	UARTI_CTS	I	ir_out	O	PWM_CTRL2	O					
11	XTAL_O			P																	
12	XTAL_I			P																	
13	VDD_0P8			P	digital power supply																
14	VDD_1P0			P	VDD_1p0,优先考虑不加碰珠,EVK版本需要留个碰珠位置																
15	LX2		VDDIO_33	Analog	DCDC POWER Inductance L/for LDO mode Regulator Power Supply		POWER_ON/OFF														
16	LX1			P	DCDC POWER Inductance L/for LDO mode NC																
17	VDDIO/VDD_BUCK/PWR_KEY			P	IO power 1.8V-3.3V/VDD_BUCK/PWR_KEY																
18	VDD_EFUSE		Typical 1.8V	P	efuse program power .18V																
19	UART0_TXD		VDDIO_33	wpu	数模复用		UART0_TXD	0	GP1O6	1/O	COLD_RESET	0	32K_CLK_OUT		I2S_RXSCK	I/O	XTAL_O_32k	Analog			
20	UART0_RXD		VDDIO_33	wpu	数模复用		UART0_RXD	I	GPIO5	I/O	40M_CLK_OUT	0	ir_out	0	I2S_RXWS	I/O	XTAL_I_32k	Analog			
21	TRST	4mA	VDDIO_33	wpd			TRST	I	GPIO4	1/0	UART0_RTS	0	SPI1_CS1	I/O	PWM_CTRL4	0	MSPI_CS1	0	bledebug7		
22	TDI	4mA	VDDIO_33	wpd			TDI	I	GPIO3	1/0	UART0_CTS	I	SPI1_MISO	I/O	PWM_CTRL3	0	I2C_SDA	TRI	bledebug6		
23	TDO	4mA	VDDIO_33	wpd			TDO	0	GPIO2	I/O	UARTI_TXD	0	SPI1_MOSI	I/O	PWM_CTRL2	0	I2C_SCL	TRI	bledebug5		
24	TMS	4mA	VDDIO_33	wpd			TMS	I	GPIO1	1/0	UARTI_RXD	I	SPI1_CS0	I/O	PWM_CTRL1	0	I2S_RXD	I	bledebug4		
25	TCK	4mA	VDDIO_33	wpd			TCK	I	GPIO0	I/O	UART2_TXD	0	SPI1_CLK	I/O	PWM_CTRL0	0	I2S_TXSCK	I/O	bledebug3		
<mark>26</mark>	ResetB/TestMode	4mA	VDDIO_33	wpu	数模复用		TesrMode	I	ResetB	I I											
27	GPIO20		VDDIO_33	wpd	数模复用		PWM_CTRL3	0	GPIO20		aux_2/vout_ip	Analog	I2S_MCLK	I/O							
28	GPIO15		VDDIO_33	wpu	数模复用		BOOTMODE1	1	GPIO15	I/O	ATST_B/aux_1/vout_qn	Analog			PWM_CTRL5	О	I2S_TXWS	I/O			
29	GPIO14		VDDIO_33	wpu	数模复用		BOOTMODE0	I	GPIO14	I/O	ATST_A/aux_0/vout_qp	Analog			PWM_CTRL4	0	I2S_TXD	0			
30	VDD_DA			P	DA power																
31	VDD_PA			P	PA Power																
32	LNA			Analog																	



#### ECR6600-TS2L QFN32 LDO MultiFunction

					10 类型		function()		function1		function2		function3		function4		function5		function6	
32Pin_No	Cell name	Driver	IO Power Domain	Reset input/output		Reset Value	pin mux name	type	pin mux name	type	pin mux name	type	pin mux name	type	pinmux name	type	pinmux name	type	pinmux name	type
1	VDD_BAT			P	Vdd_bat1 and Vdd bat2,for RF BG, LP BG/LDO etc															
2	VDD_1p0RF			P	BUCK feedback										•					
3	GPIO23	4mA	VDDIO_33	wpd			SD_H_DATA1	I/O	GPIO23	I/O	UART1_RTS	0	PWM_CTRL1	0	I2S_TXSCK	I/O	w_active	0		
4	GPIO22	4mA	VDDIO_33	wpd			SD_H_DATA0	I/O	GPIO22	I/O	UART0_TXD	0	PWM_CTRL0	0	I2S_TXWS	I/O	bt_priority	I		
5	GPIO13	4mA	VDDIO_33	wpd			SD_H_CLK	0	GPIO13	I/O	UART2_TXD	0	I2C_SCL	TRI	I2S_RXD	I	dpll_80M_o	0		
6	GPIO21	4mA	VDDIO_33	wpd			SD_H_CMD	I/O	GPIO21	I/O	UART0_RXD	1	I2C_SDA	TRI	I2S_TXD	0	bt_active	1		
7	GP1O25	4mA	VDDIO_33	wpd			SD_H_DATA3	I/O	GPIO25	I/O	phy_entrx	O	PWM_CTRL3	O	!phy_entrx	I/O	I2C_SDA	TRI		
8	GPIO24		VDDIO_33	wpd			SD_H_DATA2	I/O	GPIO24	I/O	UART1_CTS	ľ	PWM_CTRL2	O	I2S_MCLK	I	w_priority	<u> </u>		
9	GPIO17	4mA	VDDIO_33	wpd			WAKEUP	ľ	GPIO17	I/O	UART2_RXD	ľ	SPI1_WP	I/O	PWM_CTRL5	O	I2S_TXWS	I/O	bledebug2	
10	GPIO16		VDDIO_33	wpd			NC	ľ	GPIO16	I/O	UART1_CTS	I	ir_out	O	PWM_CTRL2	O				
11	XTAL_O			A																
12	XTAL_I			A																
13	VDD_0P8			P	digital power supply															
14	VDD_1P0			P	VDD_1p0,优先考虑不加磁珠,EVK版本需要留个磁珠位置															
15	LX2			P	DCDC POWER Inductance L/for LDO mode Regulator Power Supply															
16	VDD_BUCK/POWER_KEY			P	VDD_BUCK/PWR_KEY															
17	VDDIO			P	IO power 1.8V~3.3V					_										
18	VDD_EFUSE		Typical 1.8V	P	efuse program power .18V				A .											
19	UART0_TXD		VDDIO_33	wpu	数模复用		UART0_TXD	0	GPIO6	I/O	COLD_RESET	0	32K_CLK_OUT		I2S_RXSCK	I/O	XTAL_O_32k	Analog		
20	UART0_RXD		VDDIO_33	wpu	数模复用		UART0_RXD	I	GPIO5	I/O	40M_CLK_OUT	0	ir_out	0	I2S_RXWS	I/O	XTAL_I_32k	Analog		
21	TRST	4mA	VDDIO_33	wpd			TRST	I	GPIO4	I/O	UARTO_RTS	0	SPI1_CS1	I/O	PWM_CTRL4	0	MSPI_CS1	0	bledebug7	
22	TDI	4mA	VDDIO_33	wpd			TDI	I	GPIO3	I/O	UARTO_CTS	I	SPI1_MISO	I/O	PWM_CTRL3	0	I2C_SDA	TRI	bledebug6	
23	TDO	4mA	VDDIO_33	wpd			TDO	0	GPIO2	I/O	UART1_TXD	0	SPI1_MOSI	I/O	PWM_CTRL2	0	I2C_SCL	TRI	bledebug5	
24	TMS	4mA	VDDIO_33	wpd			TMS	I	GPIO1	I/O	UARTI_RXD	I	SPI1_CS0	I/O	PWM_CTRL1	0	I2S_RXD	I	bledebug4	
25	TCK	4mA	VDDIO_33	wpd			TCK	I	GPI00	I/O	UART2_TXD	0	SPI1_CLK	I/O	PWM_CTRL0	0	I2S_TXSCK	I/O	bledebug3	
26	ResetB/TestMode	4mA	VDDIO_33	wpu	数模复用		TestMode	ľ	ResetB	Ĭ										
27	GPIO20		VDDIO_33	wpd	数模复用		PWM_CTRL3	0	GPIO20		aux_2/vout_ip	Analog	I2S_MCLK	I/O						
28	GPIO15		VDDIO_33	wpu	数模复用		BOOTMODE1	I	GPIO15	I/O	ATST_B/aux_1/vout_qn	Analog			PWM_CTRL5	0	I2S_TXWS	1/0		
29	GPIO14		VDDIO_33	wpu	数模复用		BOOTMODE0	I	GPIO14	I/O	ATST_A/aux_0/vout_qp	Analog			PWM_CTRL4	0	I2S_TXD	0		
30	VDD_DA			P	DA power															
31	VDD_PA			P	PA Power															
32	LNA			Analog																