



- DWO LIMITED

NO.	Pin Name	1/0	Description	10 GND ==
	VBAT	Р	Battery Voltage 3.8V TYP. (2.9-4.5V)	TE C
2 '	VCC	Р	Power supply for display driver IC analog system.	IM1 Co
3	IOVCC	Р	Power supply for display driver IC interface and logic system	TP-INT-G
4	PWR_EN	1	Power IC enable control pin. Unused, please open this pin.	TP-SDA D
5 :	SPI_CS	1	Chip select input pin ("Low" enable)	TO SCI C
6 :	SPI_CLK	1	SCL: A synchronous clock signal in SPI I/F.	TO DECET
7 :	SIOO	1/0	Serial Data Input input & output in QSPI,data Lane 0	1250000
	DCX /Q-SI1	1	Serial Data Input in QSPI,data Lane 1; Display data / command selection in 4-wire SPI I/F. D/CX = "0" : Command D/CX = "1" : Display data or Parameter If not used, please connect to VSSI.	Q-Si3 C
9 1	Q-SI2	1	Serial Data Input in QSPI,data Lane 2	- 0-SH/RS C
10	Q-SI3	1	Serial Data Input in QSPI,data Lane 3	SIOG G
11 :	SPI_RESET	ı	Display driver reset, must be applied to properly initialize the chip. Signal is active low.	SPI_CLK G
12	TP_RESET	1	TP driver reset. Signal is active low.	SPI CS G
	TP-SCL	1	Touch Panel Clock Input. Communication Voltage follow IOVCC If not used, please open this pin.	FWR EN G
14	TP_SDA	1/0	Touch Panel Data Input and output. Communication Voltage follow IOVCC If not used, , please open this pin.	VCC 5
15	TP-INT	0	Touch Panel Interrupt Output. If not used, please open this pin.	1-VBAT 5
16	IM1	1	Dsipaly Interface type selection;	-
17	TE	0	Tearing Effect	
18	GND	Р	Ground	

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GAIN_SLOT = GND through 100kΩ	14.4	15	15.6	
GAIN_SLOT = GND	11.4	12	12.6	
GAIN_SLOT = unconnected	8.4	9	9.6	dB
GAIN_SLOT = V <sub>DD</sub>	5.4	6	6.6	
GAIN_SLOT = $V_{DD}$ through 100kΩ	2.4	3	3.6	
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22,支持20 个模拟通道输入。这 20个模拟通道输入对应着具体的 IO。

ADC1型:

10 通道:GPIO1 - GPIO10 ADC2型:

只有两个spi,因此,要把sd卡改成sdmc 唤醒源必须是RTC脚

10 通道: GPIO11 - GPIO20

## 表 3. Summary of Register Set

POINTER			POWER-ON RES			
ADDRESS (Hex)	REGISTER NAME	DESCRIPTION	BINARY	HEX	TYPE(1	
0	Configuration	All-register reset, shunt and bus voltage ADC conversion times and averaging, operating mode.	01110001 00100111	7127	R/W	
- 1	Channel-1 Shunt Voltage	Averaged shunt voltage value.	00000000 00000000	0000	R	
2	Channel-1 Bus Voltage	Averaged bus voltage value.	00000000 00000000	0000	R	
3	Channel-2 Shunt Voltage	Averaged shunt voltage value.	00000000 00000000	0000	R	
4	Channel-2 Bus Voltage	Averaged bus voltage value.	00000000 00000000	0000	R	
5	Channel-3 Shunt Voltage	Averaged shunt voltage value.	00000000 00000000	0000	R	
6	Channel-3 Bus Voltage	Averaged bus voltage value.	00000000 00000000	0000	R	
7	Channel-1 Critical Alert Limit	Critical Alert Contains limit value to compare each conversion value to determine if the corresponding limit has been exceeded.		7FF8	R/W	
8	Channel-1 Warning Alert Limit	Contains limit value to compare to averaged measurement to determine if the corresponding limit has been exceeded.	01111111 11111000	7FF8	R/W	
9	Channel-2 Critical Alert Limit	Contains limit value to compare each conversion value to determine if the corresponding limit has been exceeded.	01111111 11111000	7FF8	R/W	
A	Channel-2 Warning Alert Limit	Contains limit value to compare to averaged measurement to determine if the corresponding limit has been exceeded.	01111111 11111000	7FF8	R/W	
В	Channel-3 Critical Alert Limit	Contains limit value to compare each conversion value to determine if the corresponding limit has been exceeded.	01111111 11111000	7FF8	R/W	
С	Channel-3 Warning Alert Limit	Contains limit value to compare to averaged measurement to determine if the corresponding limit has been exceeded.	01111111 11111000	7FF8	R/W	
D	Shunt-Voltage Sum	Contains the summed value of the each of the selected shunt voltage conversions.	00000000 00000000	0000	R	
E	Shunt-Voltage Sum Limit	Contains limit value to compare to the Shunt Voltage Sum register to determine if the corresponding limit has been exceeded.	01111111 11111110	7FFE	R/W	
F	Mask/Enable	Alert configuration, alert status indication, summation control and status.	00000000 00000010	0002	R/W	
10	Power-Valid Upper Limit	ower-Valid Upper Limit Contains limit value to compare all bus voltage conversions to determine if the Power Valid level has been reached.			R/W	
11	Power-Valid Lower Limit	Contains limit value to compare all bus voltage conversions to determine if the any voltage rail has dropped below the Power Valid range.	00100011 00101000	2328	R/W	
FE	Manufacturer ID	Contains unique manufacturer identification number.	01010100 01001001	5449	R	
FF	Die ID	Contains unique die identification number.	00110010 00100000	3220	R	

原理图	;		创建日期 更新日期		2025-03-03 2025-03-11					
板子	FRS_MAIN_Module				图页		Description			
绘制										
审阅		ESP32_S3_Main_Module								
		版本	尺寸		页	3	共	3		
⇔嘉立创EDA		V1.0	A4			嘉立包	IJEDA			