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飞控型号: PACER H743	稳压电源: 5V2A&10V2A
飞控固件: STM32H743	串口: 8串口
统一目标文件: TMTOR-TMOTORH743	视频字符叠加: AT7456E&HD
主控: STM32H743	黑匣子: 16MB
陀螺仪: MPU6000	接口: TYPE-C

型 号		输入电压	典型应用	安装孔位	重 量	尺 寸 mm
PACER H743	12-27V (3-6S)	170-450 多旋翼	30.5*30.5 /φ4mm			38*38*6

GND 10V 5V CAMERA INPUT

GND 10V 5V CAMERA2 INPUT

UART-1 TX-RX1 5V GND

*AIR SPEED for ADC采样端口，
需固件支持模数转换

*CAN需要接按钮外部
CAN收发芯片座接处

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	GND	19	GND	37	S2	MOTOR9	MOTOR2
2	5V	20	S10	38	MOTOR8	MOTOR8	MOTOR8
3	CURRENT SENSOR	21	CAN-RX	39	TX3	CAN-RX	UART-RX3
4	AIR SPEED	22	CAN-RX	40	RX3	CAN-RX	UART-RX3
5	CUR	23	GND	41	GND	GND	GND
6	GND	24	GND	42	GND	GND	GND
7	UART-RX8	25	GND	43	8-	UART-RX	BEEP-
8	SCL	26	DV	44	LED	UART-RX	LED STRIP
9	5V	27	DV2	45	5V	5V	5V
10	GND	28	GND	46	GND	GND	GND
11	UART-TX2	29	S11	47	35	MOTOR11	MOTORS
12	SDA2	30	S12	48	31	MOTOR12	MOTOR1
13	R2						
14	S3						

G 5V 12V VIDEO OUT UART-TX4S UART-RX8S

3.3V RS485 UART-TX5S UART-RX5S 5V GND

*Uxart-ESC Telemetry
*Uart7-Bluetooth

Diagram illustrating the PCB layout for the T10V module. The module is a square board with four mounting holes. It features a TYPE-C connector on the left side, a BOOT pin near the bottom-left corner, and four main functional blocks: ESC2 and ESC1 at the top, HD at the bottom-left, and RECEIVER at the bottom-right. External connections are shown as follows:

- Top-left: 8 7 6 5 UART-RX6 ADC2 - +
- Top-right: 4 3 2 1 UART-RX6 C - +
- Bottom-left: 10V GND UART-TX6 UART-RX6 GND UART-RX5
- Bottom-right: GND 5V UART-RX5 UART-TX5

The diagram illustrates the hardware components used in the project. It features a Raspberry Pi 4 (labeled '1') connected to a GPS module (labeled 'GPS'), an FT800 module (labeled 'FT800'), and a power supply unit (labeled '5'). The Raspberry Pi 4 is connected to the GPS module via I2C pins (SDA, SCL, GND, VCC). The Raspberry Pi 4 is also connected to the FT800 module via UART pins (TX, RX, GND, VCC). The power supply unit is connected to the Raspberry Pi 4 via USB pins (USB, GND, VCC).

1. 务必书写名称一致的固件以及统一配置文件，否则飞控部分功能将无法使用；
2. SBUS接收机适用于所有UART-RX；
3. 陀螺仪上方尽量远离线材、磁性材料和射频类器件，否则会造成陀螺仪运行异常；
4. 无论任何时候都要注意极性，供电之前一定要反复检查
5. 请确保所有电线和连接器部件维护良好，避免短路造成产品损坏；
6. 请避免在潮湿、高温等恶劣环境下使用产品，避免造成产品损坏；
7. 如需更多信息，请联系TS-MOTOR售后或技术支持。



We appreciate your choice of our product. This device is extremely powerful and improper handling may lead to personal injury or equipment damage. It is essential to thoroughly read and retain this manual for future reference. Strict adherence to the provided operational guidelines is strongly recommended. Please be aware that any deviations from these guidelines or unauthorized product modifications will absolve us of liability, including potential incidental or consequential losses.

We reserve the right to modify the design, appearance, performance specifications, and usage requirements of our products without prior notice.

Model: PACER H743	BEC: 5V2A&10V2A
Firmware: STM32H743	UARTS: 8 sets
Unified target file: TMTR-TMOTORH743	OSD: AT7456E&HD
MCU: STM32H743	FLASH: 16MB
GYRO: MPU6000	USB: TYPE-C

Model	Input voltage	Typical application	Mounting hole	Weight	Dimensions mm
PACER H743	12-27V (3-6S)	170-450 multi-rotor	30.5*30.5 /φ4mm		38*38*6

Diagram illustrating the connection of the ESP8266 module to the external system components:

- ESC2** is connected to **8 7 6 5 UART-RX6 ADC2 - +**.
- ESC1** is connected to **4 3 2 1 UART-RX6 C - +**.
- TYPE-C** is connected to **10V GND**.
- HD** is connected to **10V GND**.
- RECEIVER** is connected to **5V UART-RX5**.

1. Before updating FW, it's essential to select the correct firmware for this specific board to enable all flight control functions. Flashing an incorrect target may result in limited functionality.
2. The SBUS receiver can be used with all UART-RX.
3. For cleanest gyroscope performance, maintain a significant distance between the gyroscope and wires, magnetic materials, and radio frequency components.
4. Double-check the polarity before powering on.
5. Ensure proper insulation of all wiring and connections to prevent damage from short circuits.
6. Avoid operation in adverse conditions such as high humidity and extreme temperatures to prevent product damage.
7. For additional information, please contact T-MOTOR's after-sales or technical support, fpvservice@tmotor.com.