

T900是一款高性价比远距离无人机数传,频率范围902-928Mhz。全双工串行链路支持Mavlink传输,支持16通道SBUS遥控器转发,增加遥控器控制距离。支持串口WIFI转发,可以在电脑端和移动端监测飞控数据。

01 主要特性

- 采用32位MCU,更快的处理速度,降低数据延时;
- 采用有源温补晶振,长时间工作频率不漂移;
- 采用DSSS直序扩频,抗干扰能力强,传输距离远;
- 上行速率高,支持远距离快速上传控制命令;
- 支持16通道SBUS转发,适合远距离FPV飞行;
- 支持数据WIFI转发,外业地面站放置更加灵活;
- 支持宽电压3-12S输入,省去UBEC独立供电模块;
- 航空铝合金外壳,电磁屏蔽、坚固耐用、散热效果好。



02 技术参数

工作频率	902-928Mhz
频率容差	± 5ppm
发射功率	1W
整体功耗	2.2W-2.5W
传输距离	60 KM (空对地、无干扰、天线性能好)
串口电平	3.3V TTL
串口速率	57600bps
工作方式	DSSS
数据协议	Mavlink
工作电压	12V-60V (3S-12S)
供电接口	XT30PW-M (公头)
天线接口	SMA外螺纹内针
串行接口	GH1.25-4P
SBUS接口	GH1.25-3P
USB接口	Type-C
工作温度	-40℃ ~ +85℃
尺寸	63*39*14.5mm
重量	108g

03 使用方法

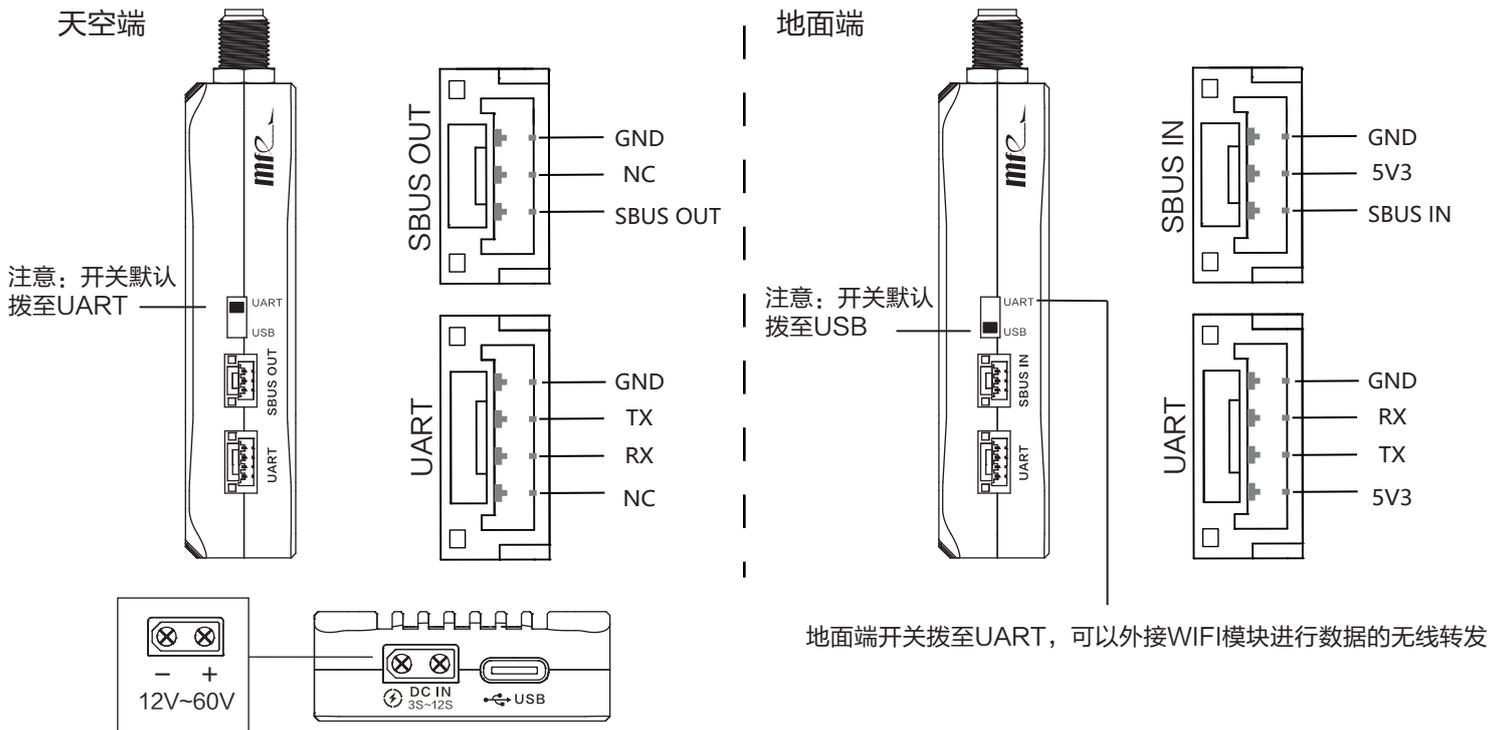
指示灯定义

● ACT灯

● COM灯

指示灯定义	
ACT灯闪烁	正在对频
ACT灯常亮	对频成功
COM灯闪烁	数据传输

04 接口示意图



05 天线选择

- 在小体积便携的应用场景，建议使用半波偶极子天线，机载端和地面端都可以使用，传输距离比较远。
- 追求超远传输距离的应用场景，建议地面站使用八木天线，八木天线比偶极子拥有更高的增益，但是指向性很强，配合AAT自动天线跟踪系统可以达到更好的效果。

06 注意事项

- 数传通电前请检查电源正负极连接是否正确，避免短路烧毁模块；
- 数传通电前请检查天线是否拧紧；禁止在未接天线情况下通电，防止射频模块烧毁；
- 在实际使用过程中，如需延长信号线，请使用优质射频馈线来减小信号衰减。



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T900 Telemetry Module

User Manual

T900 is a cost-effective long-distance drone telemetry module with a frequency range of 902-928Mhz. The full-duplex serial link supports Mavlink transmission, supports 16-channel SBUS remote control forwarding, and increases the control distance of the remote control. Supports serial port WIFI forwarding, and can monitor flight control data on the computer and mobile terminals.

01 Main Features

- Using 32-bit MCU, faster processing speed and lower data delay;
- Active temperature-compensated crystal oscillator is used, and the working frequency does not drift for a long time;
- Using DSSS direct sequence spread spectrum, strong anti-interference ability, long transmission distance;
- The uplink rate is high, and it supports long-distance fast upload control commands;
- Support 16-channel SBUS forwarding, suitable for long-distance FPV flight;
- Support data WIFI forwarding, more flexible placement of field ground stations;
- Support wide voltage 3-12S input, save UBEC independent power supply module;
- Aviation aluminum alloy casing, electromagnetic shielding, durable, good heat dissipation.



02 Technical Parameters

Working frequency	902-928Mhz
Frequency tolerance	±5ppm
Transmit power	1W
Overall power consumption	2.2W-2.5W
Transmission distance	60 KM (air-to-ground, no interference, good antenna performance)
Serial port level	3.3V TTL
Serial speed	57600bps
Way of working	DSSS
Data protocol	Mavlink
Operating Voltage	12V-60V (3S-12S)
Power supply interface	XT30PW-M (Male)
Antenna interface	SMA External thread inner needle
Serial interface	GH1.25-4P
SBUS Interface	GH1.25-3P
USB Interface	Type-C
Operating temperature	-40°C ~ +85°C
Size	63*39*14.5mm
Weight	108g

03 Usage Method

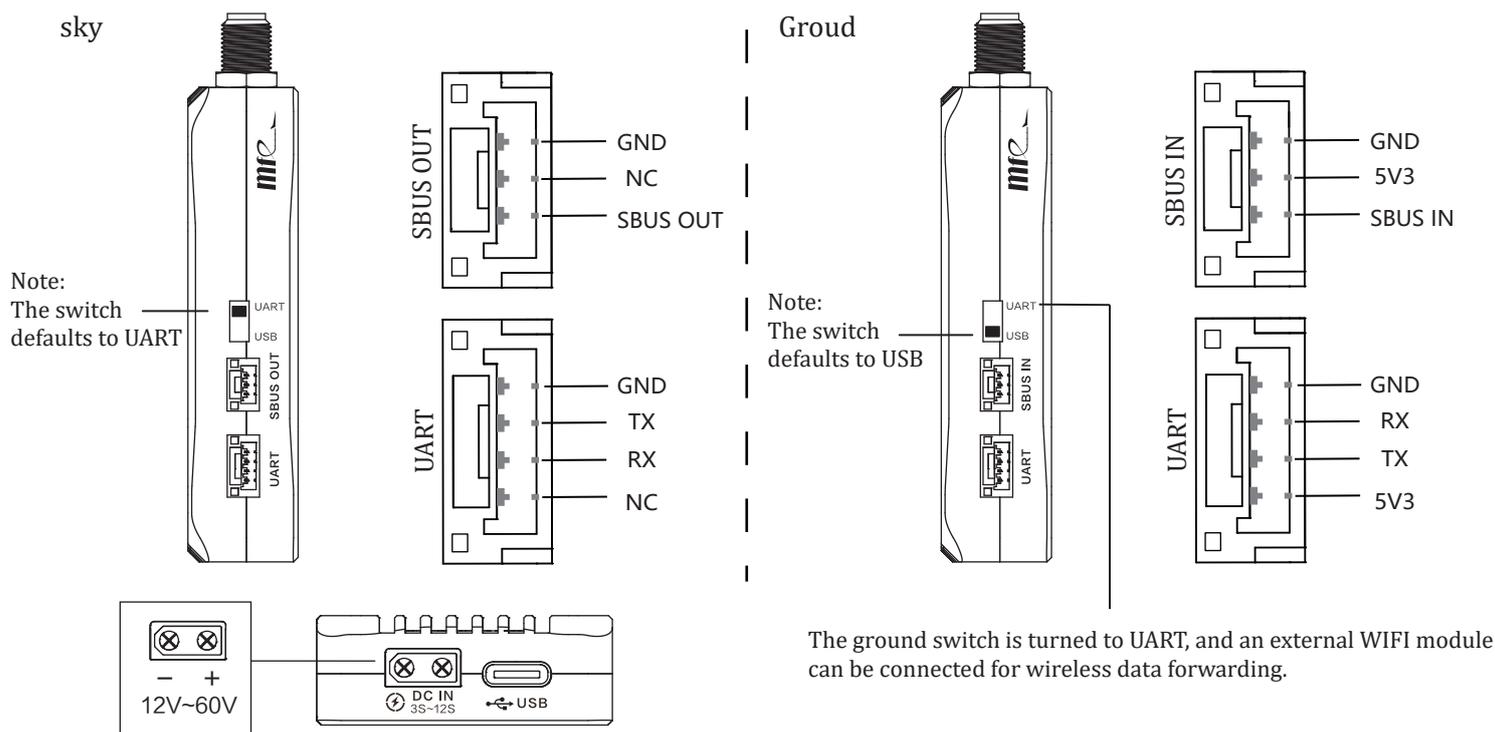
Definition of indicator light

 ACT light

 COM light

Definition of indicator light	
ACT light flashes	Pairing
ACT light is always on	Pairing success
COM light flashes	Data transmission

04 Interface Diagram



05 Antenna Selection

- In small and portable application scenarios, it is recommended to use a half-wave dipole antenna, which can be used on both the airborne end and the ground end, and the transmission distance is relatively long.
- In the pursuit of ultra-long transmission distance application scenarios, it is recommended to use Yagi antennas for ground stations. Yagi antennas have higher gain than dipoles, but they have strong directivity. Better results can be achieved with AAT automatic antenna tracking system.

06 Attention

- Before the data transmission is powered on, please check whether the positive and negative poles of the power supply are connected correctly to avoid short-circuiting and burning the module;
- Please check whether the antenna is tightened before powering on the data transmission; it is forbidden to power on without the antenna to prevent the RF module from burning out;
- In actual use, if you need to extend the signal line, please use a high-quality RF feeder to reduce signal attenuation.



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