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ST15NMT UAV Video Data Transmitter and Receiver

SUNTOR module ST15NMT is the latest miniaturized and functional wireless transmission equipment. It adopts TDD wireless transmission technology and dual antenna diversity design to make the signal transmission quality more stable. The device can support bidirectional transmission of network data and TTL serial data at the same time. The data link can be adjusted according to different ratios, and the uplink and downlink data link transmission rates can be adjusted proportionally. In addition, the module has three frequency of 2.4GHz/1.4GHz/800MHz for option. The equipment can be applied to the use of intelligent unmanned terminals such as UAV drones, unmanned ships, unmanned boats and robots.

1 Feature:

- TDD wireless transmission technology
- Optional frequency 800MHz \ 1.4GHz \ 2.4GHz
- dual antenna diversity design to make the signal transmission quality more stable, and high receiving sensitivity
- Long range more than 15km
- Lower RF power and power consumption
- Support IP video output and bidirectional TTL serial data
- the uplink and downlink data link transmission rates can be adjusted proportionally(2D3U、3D2U、4D1U)
- Optional Bandwidth(3MHz/5MHz/10MHz/20MHz)

2 Product

2.1 Shape and Dimension



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2.2、Mechanical chassis and double Omni antenna design









3、Parameter

Module			
Hardware	RF	Frequency	2401.5-2481.5 MHz1427.9-1447.9MHz806-826 MHz
		RF Power	25dBm±2



Focus on Wireless, Make Transmission Easier

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			2.40 (.414)
			2.4G (1Mbps) :20MHz -99dBm
		Receivng sensitivity	-102dBm5MHz -104dBm 3MHz -106dBm1.4G
			(1Mbps) : 10MHz -103dBm
			3MHz -108dBm800M (1Mbps) :10MHz -103dBm
			5MHz -106dBm 3MHz -108dBm
	Antenna	Double Antenna	SMA Type
	Serial Port	TTL *1	Baud rate 115200
	Power	consumption	5V power supply the consumption maximum in 850mA±15%。
		9~13V	optional
	Working temperature	-25°C~60°C	
	Center point		Any node in the network can be configured as a
		selection	central node
		Rate	The central node simultaneously receives/sends the total rate of data sharing at the current bandwidth.
	From Node	Node Qty	Ethernet Nodes N≥2 maximum 16 access point
		Communications	Any two slave nodes must be forwarded through the
			central node
System			Any node supports unicast and broadcast modes
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Rate	All slave nodes and the central node share the
			working bandwidth in one direction, the maximum
			downlink configuration (20M bandwidth, the rate
			reaches 30M), and the maximum uplink configuration
			(20M bandwidth, the rate reaches 26M).
		Automatic power	Support access node adaptive adjustment of transmit power
		adjustment	





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	OTA, Local and remote upgrade upgrade		emote upgrade
	Anti-interfer	Frequency	Support automatic frequency hopping in the range of
	ence	hopping	frequency
	Retransmissi on configuratio		Select whether to retransmit according to different data carried
	n		
	Transmitting mode	Transmission mode	Single antenna transmission, single antenna receiving / single antenna transmitting, dual antenna receiving
		Data link	Master-slave data bidirectional communication, dynamically adjusting rate based on wireless data
		Access	PTP;PTMP
Wireless	Bandwidth	2.4GHz	3MHz/5MHz/10MHz/20MHz
		1.4GHz	3MHz/5MHz/10MHz
		800MHz	3MHz/5MHz/10MHz
	Rate		Single node supports up to 30Mbps, adaptive average distribution system rate
	Encryption		Support user configuration layer 2 encryption to turn off And encryption (ZUC, SNOW3G, AES three encryption options are optional)
	Modulation		QPSK、16QAM、64QAM
	Latency	Air latency	Delay from node-central node transmission <10ms
		Start delay	entral node/slave node boot delay <15s
		Network Start	Time <1min