

FD-6100 MIMO(2x2) Wireless MESH Ethernet & Full Duplex TTL Serial Data Link





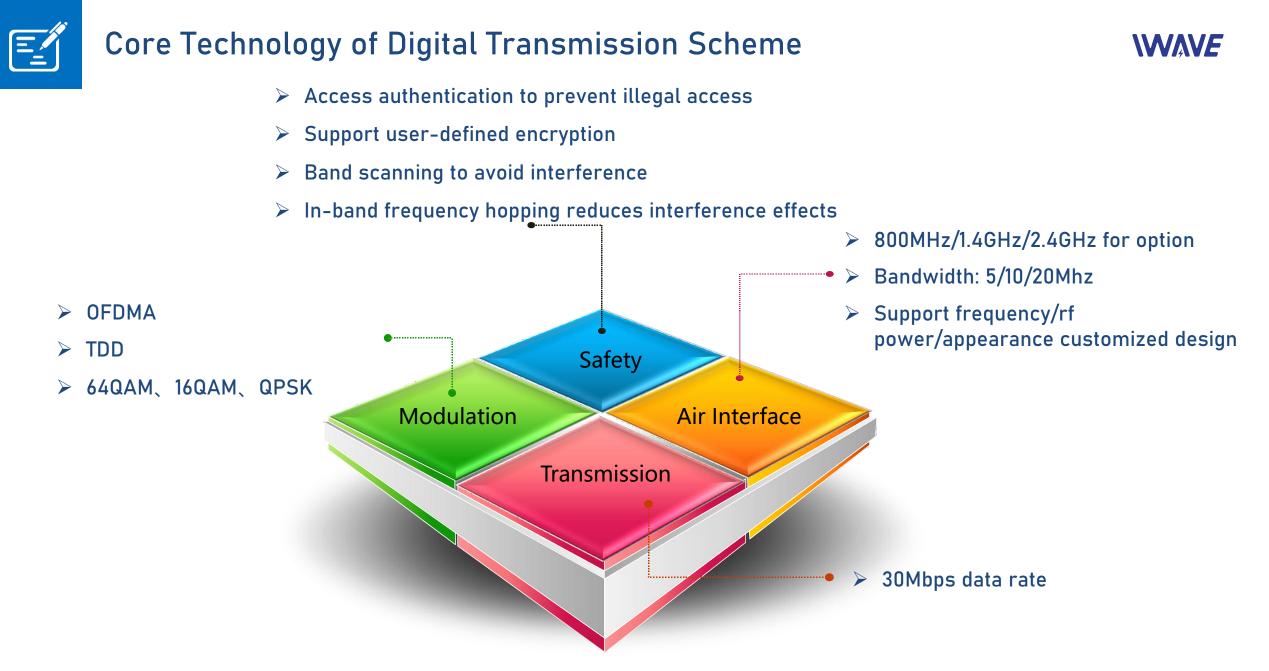


FD-6100 is a wireless transmission product designed by IWAVE based on mature SOC chipset, which is a IP MESH radio

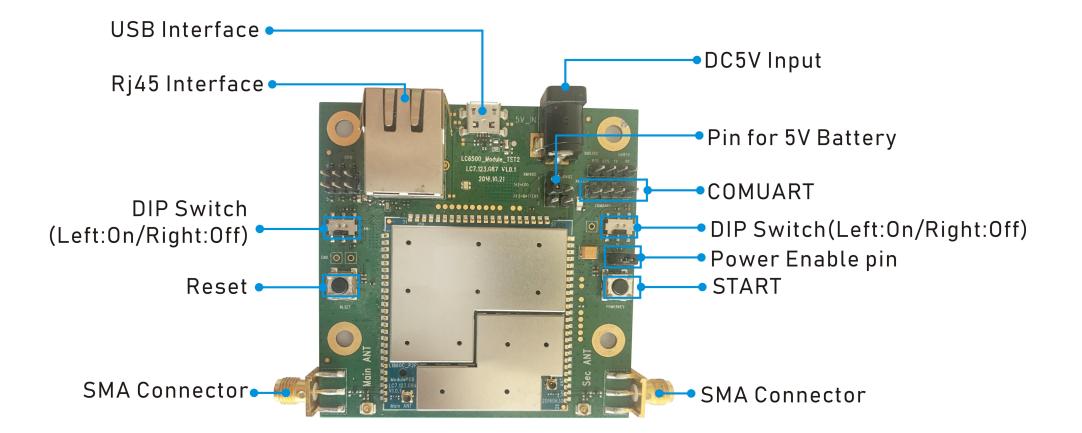
WAVE

offering HD video transmission and MIMO capability for high data capacityies

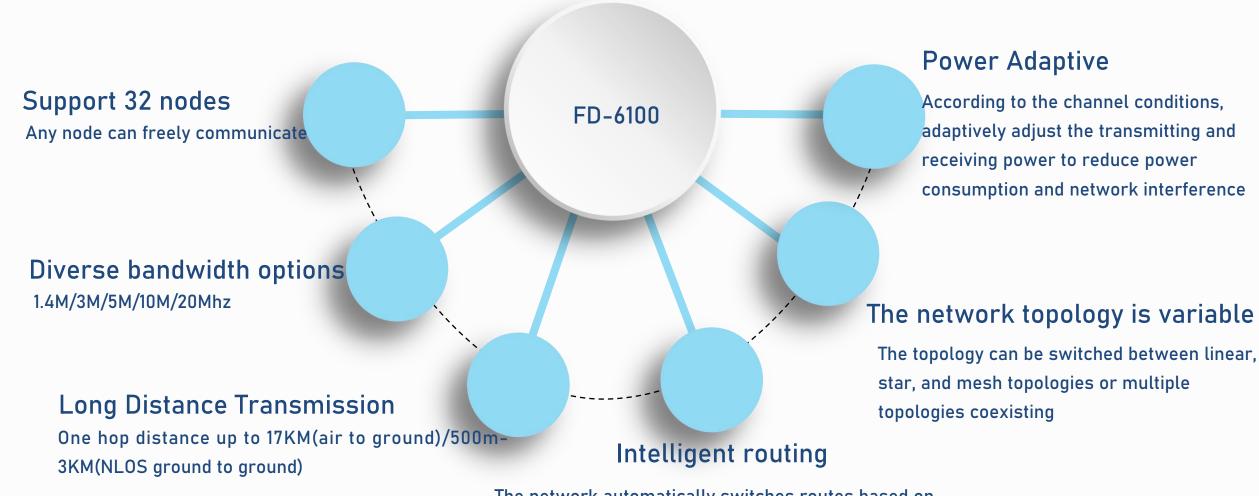
- FD-6100 is designed based on TD-LTE wireless communication standard, OFDM and MIMO technologies. It doesn't rely on any carrier's base station.
- Supports Ethernet and full duplex TTL data transmission. And the control data transmission is higher priority than the network signal.
- It adopt the Automatic frequency hopping technology for anti-interference greatly reduce system power consumption and size of the module.
- > Self-forming, self-healing mesh architecture
- Low latency IP communication
- > Support WEBUI for network management and parameters configurable.











The network automatically switches routes based on factors such as the number of transceiving and channel environment.

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GENERAL			SENSITIVITY		
TECHNOLOGY	MESH base on TD-LTE Wireless technology standard		20MHZ	-99dBm	
ENCRYPTION	ZUC/SNOW3G/AES(128/256) OptionalLayer-2	2.4GHZ	10MHZ	-103dBm	
DATE RATE	30Mbps(Uplink and Downlink)		5MHZ	-104dBm	
RANGE	10km-15km(Air to ground) 500m-3km(NLOS Ground to ground)		3MHZ	-106dBm	
NODE	32 nodes		20MHZ	-100dBm	
MIMO	2X2 MIM0	- 1.4GHZ	10MHZ	-103dBm	
POWER	23dBm±2 (2w or 10w options)		5MHZ	-104dBm	
LATENCY	One Hop Transmission≤30ms		3MHZ	-106dBm	
MODULATION	QPSK, 16QAM, 64QAM	900N/IL17	20MHZ	-100dBm	
			10MHZ	-103dBm	
ANTI-JAM	Automatically frequency hopping	- 800MHZ	5MHZ	-104dBm	
FREQUENCY BAND			3MHZ	-106dBm	
2.4Ghz	2401.5-2481.5 MHz				
1.4Ghz	1427.9-1447.9MHz				
800Mhz	806-826 MHz				
Note: The freqeur	ncy band supports customized				

	COMUART				
Electrical Level 2.85V voltage domain and compatible with 3V/3.3V level					
Control Data	TTL mode				
Baud rate	115200bps				
Transmission Mode	Pass-through mode				
Priority level	Higher priority than the network port When the signal transmission is crowed, the control data will be transmitted in priority				
Note:					
1. The data transmitting and receive serial data.	receiving is broadcast in the network. After successful networking, each FD-6100 node can				
2. If you want to distinguish	between sending, receiving and control, you need to define the format yourself				



MECHANICAL										
TEMPERATURE	-40°C~+80°C									
DIMENSIONS	7.8*10.8*2cm									
WEIGHT	50grams									
STABILITY	MTBF≥10000hr									
POWER										
Patameters	Symbol	Description	Min	Туре	Max	Unit				
System's Main Power Supply	VCC	Input	3.7	3.8	4.35	V				
Supply Power To External Terminals	D1V8	Output		1.8		v				
Supply Power To External Terminals	D2V85	Output		2.85		v				
RTC Battery Power Supply	VSB	Input		3		V				
INTERFACES										
RF	2 x TNC									
ETHERNET	1xEthernet									
COMUART	1x COMUART									
POWER	DC INPUT									
INDICATOR	Tri-COLOR LED									



Robot Mobile Communication





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