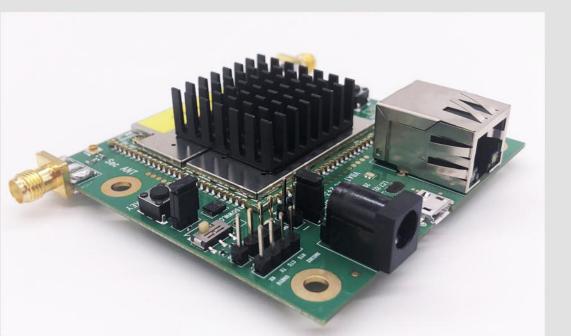


FDM-6600 MIMO(2x2) NLOS Wireless Ethernet & Full Duplex TTL Serial Data Link





FDM-6600 is a wireless transmission product designed by IWAVE based on mature SOC chipset, which supports point to point and point to multi-point. 1 maseter node supports up to 16 sub-nodes to shares 30Mbps bandwidth for 1080P video transmitting.

\W/\VF

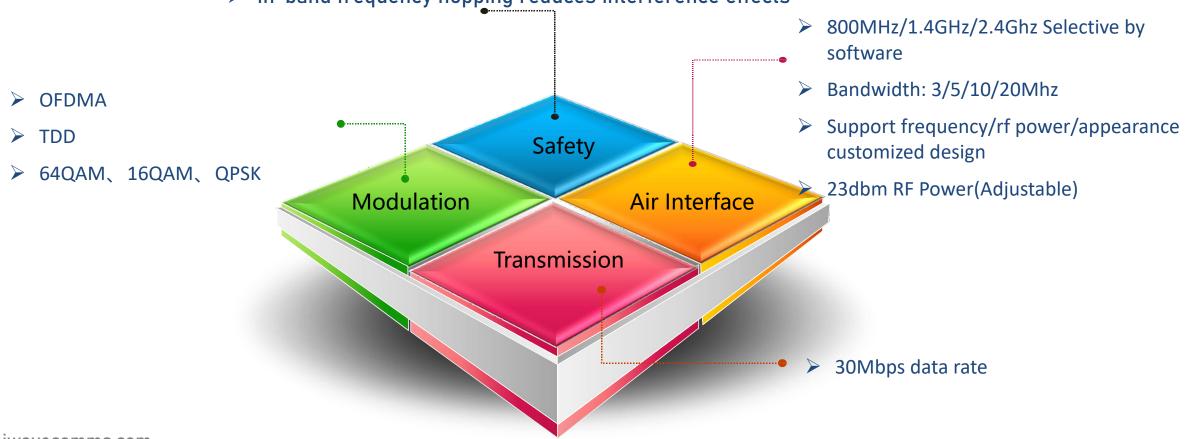
- FDM-6600 is designed based on TD-LTE wireless communication standard, OFDM and MIMO technologies. It doesn't rely on any carrier's base station.
- > Speical design for NLOS environment HD video and Control data transmitting.
- Supports TCPIP/UDP and full duplex TTL data transmission. And the control data transmission is higher priority than network signal.
- It adopts the Automatic frequency hopping technology for anti-interference greatly reduce system power consumption and size of the module.
- > Tri-band frequency: 800Mhz/1.4Ghz/2.4Ghz selectable on software.

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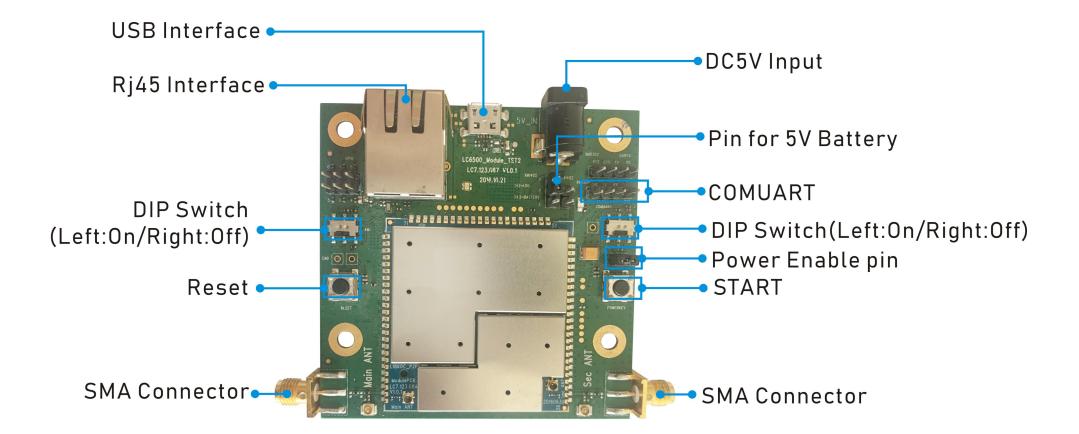
Core Technology of Digital Transmission Scheme

- Access authentication to prevent illegal access
- Support user-defined encryption
- Band scanning to avoid interference

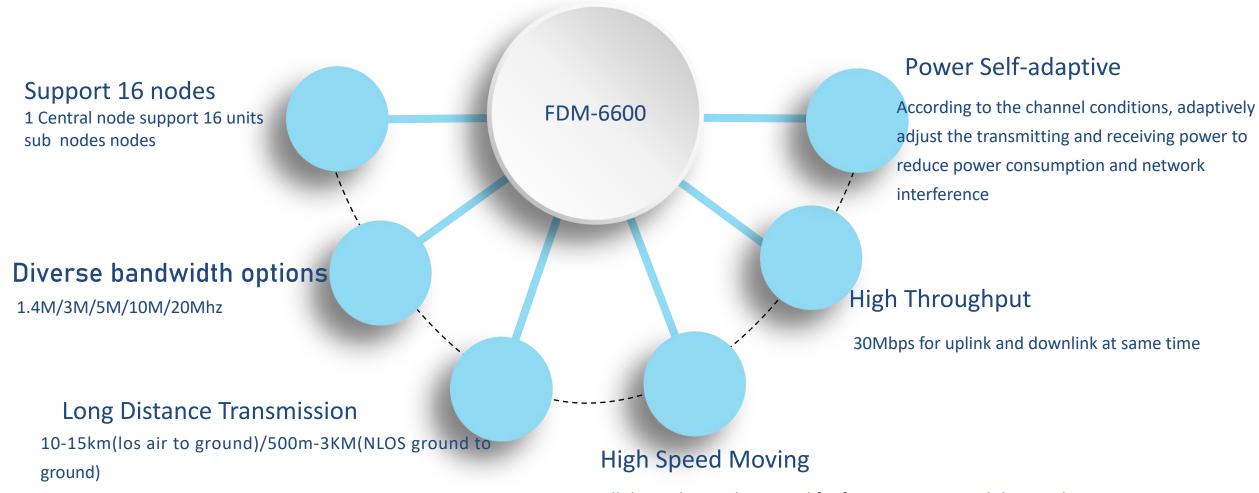


> In-band frequency hopping reduces interference effects





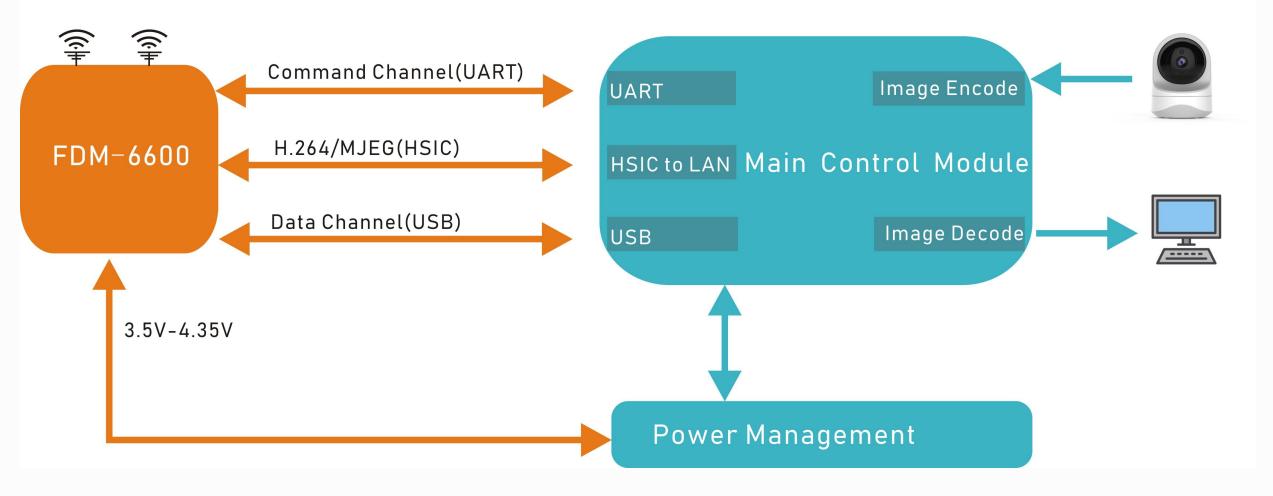




All the nodes can be carried for fasting moving. And the wireless link is stable







Data Flow Diagram of FDM-6600



GENERAL			SENSITIVITY		
TECHNOLOGY	Wireless based on TD-LTE Technology Standards	2.4GHZ	20MHZ	-99dBm	
ENCRYPTION	ZUC/SNOW3G/AES(128/256) OptionalLayer-2		10MHZ	-103dBm	
DATE RATE	30Mbps(Uplink and Downlink)		5MHZ	-104dBm	
RANGE	10km-15km(Air to ground) 500m-3km(NLOS Ground to ground)		3MHZ	-106dBm	
PtMP	Point to 16-Point		20MHZ	-100dBm	
MIMO	2x2 MIMO	- 1.4GHZ	10MHZ	-103dBm	
POWER	23dBm±2 (2w or 10w options)		5MHZ	-104dBm	
LATENCY	End to end≤30ms		3MHZ	-106dBm	
MODULATION	QPSK, 16QAM, 64QAM	20014117	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				

COMUART					
Electrical Level	el 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 rec data.	eiving is broadcast in the network. After successful networking, each FDM-6600 node can receive serial				
2. If you want to distinguish betw	ween 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≥500hr									
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	1xCOMUART									
POWER	DC INPUT									
INDICATOR	Tri-COLOR LED									

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Robot Mobile Communication





Intelliengtly Fast Linking for You

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