

6F, Bldg A3, Zidong International Creative Park, Zidong Rd, Qixia District, Nanjing, China.

IT720GS

Product Introduction

IT720GS ground-side equipment is matched with air-side equipment to achieve long-distance two-way wireless video, audio, and data transmission. The longest air-to-ground transmission distance can reach more than 100km. The communication method can meet point-to-point two-way communication, and can also realize point-to-multipoint star network communication.

The device provides multiple business interfaces, including 1 Ethernet port and 1 transparent TTL serial port. It has the characteristics of small size, light weight, easy installation, and easy use. The structure can be customized according to the usage scenario. It is very Suitable for use in image-data integrated wireless data transmission scenarios such as drones, unmanned ships, unmanned vehicles, and robots.

System			
Frequency	1428~1448MHz (supports frequency band expansion)		
Bandwidth	5MHz/10MHz/20MHz (flexible and configurable)		
Transmission	OFDM		
Modulation	BPSK/QPSK/16QAM/64QAM(adaptive)		
Transmission capacity	20Mbps@10MHz (peak rate)		
Transmission distance	≥100km		
Transmitting power	10W		
Receiving sensitivity	-99dBm@5MHz		
Frequency hopping	Supports automatic hopping between the bands		
Encryption	Supports AES128		
Power supply	DC12V		
Power consumption	≤30W		
Interface			
Antenna	N type		
Power	DC5.2		
Ethernet	RJ45		
UART	Quick connection base		
Data			
Dimensions	218*208*65mm (excluding mounting holes and antenna interface)		
Weight	≤2kg		
Operation Temp Range	-20℃~+75℃		

Specifications



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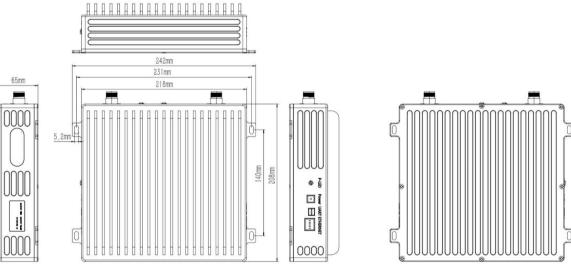


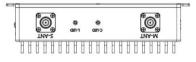
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Interface

Name	Function	Remarks	
Enclosure: POWER (power port) / DC socket			
VCC	power supply +12V	-	
GND	ground signal	-	
Enclosure: UART (communication serial port)/Quick connection base			
EXT_TX0	Data serial port TX	TTL/3.3V	
EXT_RX0	Data serial port RX	TTL/3.3V	
GND	ground signal	-	
Enclosure: ETHERNET (Ethernet port) / RJ45 socket			
ETH_TXP	TX+ (white green)	- 10/100M self-adaptive	
ETH_TXN	TX- (green)		
ETH_RXP	RX+ (white orange)		
ETH_RXN	RX- (orange)		
Enclosure: M-ANT (main transceiver antenna port)/SMA socket			
RFS1	radio frequency signal	impedance: 50Ω	
Enclosure: S-ANT (auxiliary receiving antenna port) / SMA socket			
RFS2	radio frequency signal	impedance: 50Ω	
	r port) / DC socket VCC GND nication serial port)/Quick EXT_TX0 EXT_RX0 GND hernet port) / RJ45 socket ETH_TXP ETH_TXN ETH_RXP ETH_RXN transceiver antenna port)/ RFS1 ry receiving antenna port)	VCCpower supply +12VGNDground signalnication serial port)/Quick connection baseEXT_TX0Data serial port TXEXT_RX0Data serial port RXGNDground signalmernet port) / RJ45 socketETH_TXPTX+ (white green)ETH_TXNTX- (green)ETH_RXPRX+ (white orange)ETH_RXNRX- (orange)transceiver antenna port)/SMA socketRFS1radio frequency signal	

Design







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