Product Datasheet

WQ300M5805

5.8GHz 300M outdoor 5KM remote distance transmission network bridge

1、PRODUCT OVERVIEW AND FEATURES

Product overview:

WQ300M5805 is a long-distance 5.8G wireless transmission equipment launched by our company. It uses wireless communication technology and uses air as the medium for network data transmission, long-distance point-to-point or point-to-multipoint interconnection, and the working data link layer is implemented The interconnection of local area networks can achieve a transmission distance of up to 5km.

Product features:

- A, B for automatic network formation

  A, B automatic networking, support one-to-one, one-to-many, no additional Settings, A, B flexible switching. WDS networking mode, video network dual compatibility.

- Automatic power adjustment

  Power automatic adjustment, adapt to the environment changes, to ensure that both super close to ensure smooth video.

- Video transmission protocol

The wireless video surveillance transmission has been optimized in depth to ensure dynamic burst, ensure high-speed video transmission, and achieve smooth video surveillance and keep it off without card. At the same time, the underlying wireless drive is deeply optimized, with stronger anti-interference ability and better stability.

- Economic and environmental protection

In public places, electric power, telecommunications, ports, oil fields and other departments, when building proprietary wired networks, they are often restricted by special geographical environments such as mountains and open areas and complex operation content, resulting in a long wiring project cycle or even failure at all. Difficulties in implementation. With the development of science and technology, advanced computer multimedia and network technology have given the video surveillance system richer functions and more reliable quality. The use of wireless video, audio, and data transmission equipment can get rid of the shackles of cables, highlighting the short installation cycle, It has the advantages of easy maintenance, strong expansion capability, and rapid cost recovery. Especially with the rapid development of wireless LAN technology based on spread spectrum technology, the bottleneck of transmission capacity has been broken through, allowing the integrated application of video, audio, and data wireless transmission to be further developed.

- Energy conservation and environment protection

It adopts low power consumption and high performance design, and its radio frequency indicators and radiation indicators fully comply with national standards. It supports Dynamic MIMO Power Saving Mode (DMPS) and Automatic Power Saving Delivery (APSD), intelligently identifies the actual performance requirements of the terminal, rationally allocates the terminal sleep queue, and dynamically adjusts the bidirectional power between the AP and the client to reduce device energy consumption.

■ Construction is simpler

When connecting to a long-distance network, use a wireless bridge to save the need to dig trenches and bury cables. The engineering installation is fast and flexible. The wireless method is very simple and low-cost. No investment is required - the equipment can be relocated and reused.

■ Simple installation and maintenance

Support 24V POE power supply, convenient installation and deployment, simplify the construction, safe and reliable.

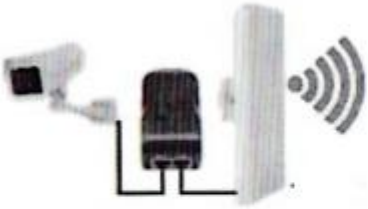
2、TECHNICAL SPECIFICATION

Main control plan	AR9344
DRAM	DDR2 64MByte
FLASH	8MByte
Cable interface	10/100Mbps LAN*2
Data rate	11a:54M, 48M, 36M, 24M, 18M, 12M, 9M, 6Mbps
	11n:7.2M, 14.4M, 21.7M, 28.9M, 43.3M, 57.8M, 65M, 72.2M, 14.4M, 28.9M, 43.3M, 57.8M, 86.7M, 115.6M, 130M, 144.4Mbps
Transmission mode	Direct sequence amplification (DSSS)
Modulation mode	OFDM/BPSK/QPSK/CCK/DQPSK/DBPSK
Standard	IEEE802.11n, IEEE802.11a , IEEE802.3u
Support agreement	CSMA/CA, TCP/IP, IPX/SPX, NetBEUI, DHCP, NDIS3, NDIS4, NDIS5
Frequency range	4900～6100MHz
Power consumption	≤3W

Power source design	POE 24V 1A (Default) (maximum voltage: 24V)			
RF Power @25℃± 2dB	802.11a	6-24Mbps	23±2dBm	
		36-48Mbps	21±2dBm	
		54Mbps	20±2dBm	
	802.11n	HT20	MCS 0-3	23±2dBm
			MCS 4	21±2dBm
			MCS 5	20±2dBm
			MCS 6	20±2dBm
			MCS 7	19±2dBm
		HT40	MCS 0-3	21±2dBm
			MCS 4	21±2dBm
			MCS 5	20±2dBm
			MCS 6	19±2dBm
			MCS 7	18±2dBm
Sensitivity	802.11a	6Mbps ≤ 92dBm ; 54Mbps ≤ -76dBm		
	802.11n	HT20	MCS 0 ≤ -86; MCS 7 ≤ -68dBm	
		HT40	MCS 0 ≤ -83dBm; MCS 7 ≤ -65dBm	
Antenna system	Frequency range	5180～5825MHz		
	Direction of polarization	Vertical (horizontal 60° / vertical 30°)		
	Gain	14DBi		
Manage	Based on the WEP management	Support		
	Telnet	Support		
	Serial	Support		
Safety	The MAC address control	Support		
	Encryption	WEP encrypt 64/128bits,WPA,WPA2,802.1x		
Working / storage environment	working temperature	-30～65℃		
	Storage temperature	0～40℃		
	Humidity (non-concentrated)	≤95%(Non-condensation)		

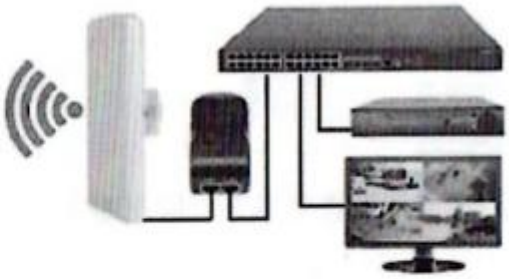
3、APPLICATION

1、A Schematic diagram of the point-to-point connection：



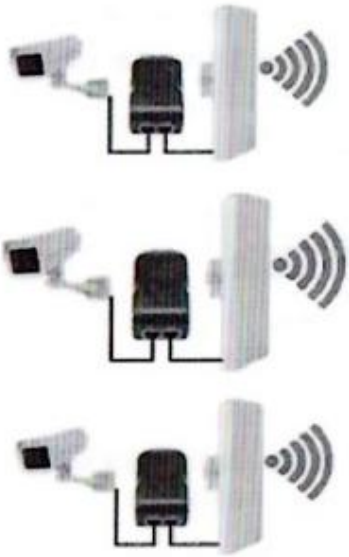
Bridge connects to the POE port of the power supply

Camera connects to the LAN port of the power supply



Bridge connects to the POE port of the power supply,the LAN port of the power supply connects to the Switch or NVR

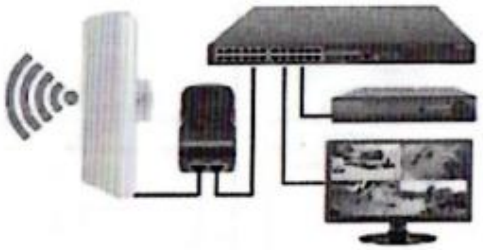
2、Schematic of point-to-multiple connections：



Bridge connects to the POE port of the power supply

Camera connects to the LAN port of the power supply

Launch angle 60°



Bridge connects to the POE port of the power supply,the LAN port of the power supply connects to the Switch or NVR

Specifications Network bridge dimension：250*95*65mm Finished product dimension：316*190*74mm Net weight of network bridge：0.3kg Finished weight ： 1.0kg
Packing list Wireless bridge finished.....1 24V non-standard POE power...1 Stainless steel fixed ring.... 1 Quick Installation Guide..... 1

Order information

Model	Specifications	
WQ300M5805	Outdoor 300M CPE 802.11 a/n ,2*2 MIMO POE 24V 5.8G 14dbi antenna 2*100M Eight needles RJ45	

4、CONTACT US

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