Product Datasheet

5.8G/300M Outdoor Wireless Bridge

(CPE450)



OVERVIEW

The CPE450 is a long-distance 5.8G wireless transmission device. It uses wireless communication technology and air as a medium for network data transmission, enabling point-to-point or point to multipoint interconnection over long distances. The working data link layer realizes local area network interconnection, and the transmission distance can reach up to 3km.

FEATURE

- A. B automatic networking
- A. B automatic networking, supporting one-to-one and one to many, no additional settings required, flexible switching between A and B. WDS networking mode, video network dual compatibility.



Automatic power regulation

Automatic power adjustment to adapt to environmental changes, ensuring smooth video playback at close range.

■ Video Transmission Protocol

We have deeply optimized the protocol for wireless video surveillance transmission, ensuring dynamic bursts and high-speed video transmission, achieving smooth video surveillance without jamming or dropping. At the same time, the underlying wireless driver has been deeply optimized, with stronger anti-interference ability and better stability.

■ Economic and Environmental Protection

♦ In public places, power, telecommunications, ports, oil fields, and other sectors, the construction of proprietary wired networks is often limited by special geographical environments such as mountains and open areas, as well as complex operational tasks, resulting in long wiring engineering cycles and even difficulties that cannot be achieved at all. With the development of technology, advanced computer multimedia and network technology have endowed video surveillance systems with richer functions and more reliable quality. The use of wireless video, audio, and data transmission equipment can break free from the constraints of cables, highlighting the advantages of short installation cycles, convenient maintenance, strong expansion capabilities, and rapid cost recovery. Especially with the rapid development of wireless local area network technology based on spread spectrum technology, the bottleneck of transmission capacity has been overcome, leading to further development of integrated applications for wireless transmission of video, audio, and data.

■ Construction is simpler

When connecting to a long-distance network, using a wireless bridge saves the need for digging trenches and burying wires, making engineering installation fast and flexible. The wireless method is very simple, with low cost and no investment



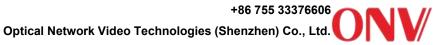
accumulation - the equipment can be relocated and reused

■ Easy installation and maintenance

♦ Support 24V PoE power supply, convenient installation and deployment, simplified construction, safe and reliable.

TECHNICAL SPECIFICATION

Model	CPE450			
Main Control Scheme	AR9344			
DRAM	DDR2 64MByte			
FLASH	8MByte			
Wired 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 Spread Spectrum (DSSS)			
Modulation Mode	OFDM/BPSK/QPSK/CCK/DQPSK/DBPSK			
Standard	IEEE 802.11n, IEEE 802.11a, IEEE 802.3u			
Support Agreement	CSMA/CA, TCP/IP, IPX/SPX, NetBEUI, DHCP, NDIS3, NDIS4, NDIS5			
Frequency Range	4900-6100MHz			
Power Waste	≤3W			
Power Solution	POE 24V 1A (default) (max voltage 24V)			
Rf Power@25℃±2db				
	6-24Mbps		23±2dBm	
802.11a	36-48Mbps		21±2dBm	
	54Mbps		20±2dBm	
802.11n	HT20	MCS 0-3	23±2dBm	
		MCS 4	21±2dBm	



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		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	Mbps≤-76dBm		
000 11n	HT20	MCS 0≤-86, MCS 7≤-0	MCS 0≤-86, MCS 7≤-68dBm	
802.11n	HT40	MCS 0≤-83dBm, MCS 7≤-65dBm		
Antenna System				
Frequency Range	5180-5825MHz			
Polarization Direction	Vertical (Horizontal 60°/vertical 30°)			
Gain	14DBi			
Administration				
Based on Web	Support			
Management	Support			
Telnet	Support			
Serial	Support			
Security				
MAC Address Control	Support			
Encryption	Web encryption 64/128 bits, WPA, WPA2802.1x			
Physical Parameter				
Operation Temp/Humidity	-30°C~+65°C, ≤95% Non condensing			
Storage Temp/Humidity	-0°C~+40°C, ≤95% Non condensing			
Product Size	251*90*49mm			
Packaging Size	310*95*75mm			



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ORDERING INFORMATION

Model	Description	
CPE450	300M outdoor CPE 802.11 a/n, 2*2 MIMO 24V PoE 5.8G 14dbi	
	antenna 2 100M eight pin RJ45	

PACKING LIST

Packing List	Content		Unit
	Outdoor wireless bridge	1	PC
	24V non-standard PoE power supply	1	PC
	Stainless steel fixing ring	1	PC
	Warranty card	1	PC

CONTACT US

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