

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°C±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		
Polarization Direction	Vertical (Horizontal 60°/vertical 30°)		
Gain	14DBi		
Administration			
Based on Web 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		

Net /Gross Weight	0.3kg / 0.45kg
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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

	Content	Qty	Unit
Packing List	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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