CIAP6300-T

300M Enterprise Ceiling-Mounted Wireless AP



- Support 1*100M LAN, 1*100M WAN, built-in 2.4G antenna
- Fat and fit in one, support seamless roaming and automatically selects channels
- Powerful radio frequency design, safe and stable, wide coverage
- Support DC 9~48V power input or WAN port PoE power receiving
- Support -40°C~65°C operating temperature

Product Introduction

CIAP6300-T adopts IEEE802.11n standard wireless access technology and advanced MIMO technology, Qualcomm QCA9531 chip, built-in high-gain antenna, speed up to 300M, with a capacity of less than 50 people, effective distance of more than 800m, and is compatible with IEEE802.11n (2.4G) protocol; PoE power supply technology, Support unified management by AC controller, can manage 300 APs at the same time, and is suitable for wireless coverage in enterprises, schools, hotels and other places. At the same time, the unique watchdog technology makes the AP work more stable and ensures the normal operation of the wireless network for a long time.

Product Features

- 11N high power, also support 2.4G coverage
- Support independent use and AC centralized management
- Support multiple SSIDs, support Chinese SSIDs
- Support multiple VLANs, SSID can be bound to VLAN
- Extremely large capacity, up to 50 users

Technical Specifications

Software				
Network Management	Configuration method: WEB System: Immortal WEB Uboot; Openwr, QXWLAN Capacity: up to 50 users			
RF parameters				
CPU	Qualcomm-Atheros QCA9531			
Wireless speed	300Mbps			
Modulation	DSSS/CCK BPSK/QPSK OFDM BPSK/QPSK/16-QAM/64-QAM			
DDR	64M			
FLASH	16M			
RF Interface	U.FL*2			
Wireless Protocol	802.11g/n			
Wireless Frequency	2.4G			
Power	26dBm@2.4G			
Frequency	2412MHz-2482MHz			
Acceptance Sensitivity	Maximum -96dBm			
Channel Bandwidth	20M/40MHz (adjustable)			
Effective Distance	More than 800 meters			
Interface				
Interface	2*10M/100M RJ45			
Power Supply				
Power Input	DC 9~48V (DC round head); 48V standard PoE power supply (WAN port)			
Average Power Consumption	5W			

Physical Characteristics				
Dimensions	204×20(mm) (Φ×H)			
Weight	About 0.3kg			
Working Environment				
Operating Temp	-40℃~65℃			
Storage Temp	-40℃~85℃			
Relative Humidity	5%~95% (non-condensing)			
Industry Standard				
Certification	CE, FC, RoHS			

RF parameters

	400mW ESD MIMO AP								
	TX SPECIFICATIONS								
	DataRate TX		TX P	ower(per cha	ain)	TX Power(2 chains)			Tolerance
	6-24	Mbps		23dBm		26dBm			±2dB
802.11G	36M	bps		23dBm		26dBm			±2dB
802.11G	48M	bps		22dBm		25dBm			±2dB
	54M	bps		21dBm		24dBm			±2dB
			TX Power			5 . 5 .	TX Power TX Power		
	DataRate	(1 chain)	(2 chains)	Tolerance		DataRate	(1 chain)	(2 chains)	Tolerance
2.4GHz	MCS 0/8	23dBm	26dBm	±2dB	2.4GHz	MCS 0/8	23dBm	26dBm	±2dB
11n	MCS 1/9	23dBm	26dBm	±2dB	11n	MCS 1/9	23dBm	26dBm	±2dB
HT 20	MCS 2/10	23dBm	26dBm	±2dB	HT 40	MCS 2/10	23dBm	26dBm	±2dB

MCS 3/11	22dBm	25dBm	±2dB		MCS 3/11	22dBm	25dBm	±2dB
MCS 4/12	22dBm	25dBm	±2dB		MCS 4/12	22dBm	25dBm	±2dB
MCS 5/13	22dBm	25dBm	±2dB		MCS 5/13	22dBm	25dBm	±2dB
MCS 6/14	22dBm	25dBm	±2dB		MCS 6/14	22dBm	25dBm	±2dB
MCS 7/15	21dBm	24dBm	±2dB		MCS 7/15	21dBm	24dBm	±2dB
RX SPECIFICATIONS								
DataRate -		Sensitivity			DataRate	Sensitivity		- Tolerance
		(2 chains)				(2 chains)		
6M	-96dBm		±2dB	- 802.11G	24M	-89dBm		±2dB
9M	-96dBm		±2dB		36M	-86dBm		±2dB
12M	-95dBm		±2dB		48M	-82dBm		±2dB
18M	-93dBm		±2dB		54M	-79dBm		±2dB
MCS0	-95dBm		±2dB		MCS0		-92dBm	
MCS1	-93dBm		±2dB		MCS1	-90dBm		±2dB
MCS2	-90dBm		±2dB		MCS2	-87dBm		±2dB
MCS3	-89dBm		±2dB	2.4GHz	MCS3	-84dBm		±2dB
MCS4	-85dBm		±2dB	11n HT 40	MCS4	-81dBm		±2dB
MCS5	-81dBm		±2dB		MCS5	-77dBm		±2dB
MCS6	-79dBm		±2dB		MCS6	-76dBm		±2dB
MCS7	-75dBm		±2dB		MCS7	-74	dBm	±2dB
	MCS 4/12 MCS 5/13 MCS 6/14 MCS 7/15 DataRate 6M 9M 12M 18M MCS0 MCS1 MCS2 MCS3 MCS4 MCS5 MCS6	MCS 4/12	MCS 4/12 22dBm 25dBm MCS 5/13 22dBm 25dBm MCS 6/14 22dBm 25dBm MCS 7/15 21dBm 24dBm Sensitivity DataRate Sensitivity 6M -96dBm 9M -96dBm 12M -95dBm 18M -93dBm MCS0 -95dBm MCS1 -93dBm MCS2 -90dBm MCS3 -89dBm MCS4 -85dBm MCS5 -81dBm MCS6 -79dBm	MCS 4/12 22dBm 25dBm ±2dB MCS 5/13 22dBm 25dBm ±2dB MCS 6/14 22dBm 25dBm ±2dB MCS 7/15 21dBm 24dBm ±2dB RX SPECIFIC RX SPECIFIC Colspan="3">Colspan="3	MCS 4/12 22dBm 25dBm ±2dB MCS 5/13 22dBm 25dBm ±2dB MCS 6/14 22dBm 25dBm ±2dB MCS 7/15 21dBm 24dBm ±2dB RX SPECIFICATIONS Sensitivity Toleranc e (2 chains) *** *** 6M -96dBm ±2dB 9M -96dBm ±2dB 12M -95dBm ±2dB 18M -93dBm ±2dB MCS0 -95dBm ±2dB MCS1 -93dBm ±2dB MCS2 -90dBm ±2dB MCS3 -89dBm ±2dB MCS4 -85dBm ±2dB MCS5 -81dBm ±2dB MCS6 -79dBm ±2dB	MCS 4/12 22dBm 25dBm ±2dB MCS 4/12 MCS 5/13 22dBm 25dBm ±2dB MCS 5/13 MCS 6/14 22dBm 25dBm ±2dB MCS 6/14 MCS 7/15 21dBm 24dBm ±2dB MCS 7/15 RX SPECIFICATIONS RX SPECIFICATIONS DataRate Sensitivity Toleranc e DataRate 6M -96dBm ±2dB 36M 9M -96dBm ±2dB 36M 12M -95dBm ±2dB 802.11G 48M 18M -93dBm ±2dB MCS0 MCS0 MCS1 -93dBm ±2dB MCS0 MCS1 MCS2 -90dBm ±2dB MCS1 MCS2 MCS3 -89dBm ±2dB 2.4GHz MCS3 MCS3 MCS4 -85dBm ±2dB HT 40 MCS4 MCS5 -81dBm ±2dB MCS6 MCS6	MCS 4/12 22dBm 25dBm ±2dB MCS 4/12 22dBm MCS 5/13 22dBm 25dBm ±2dB MCS 5/13 22dBm MCS 6/14 22dBm 25dBm ±2dB MCS 6/14 22dBm MCS 7/15 21dBm 24dBm ±2dB MCS 7/15 21dBm RX SPECIFICATIONS RX SPECIFICATIONS Sensitivity Tolerance DataRate 24M -89 6M -96dBm ±2dB 24M -89 9M -96dBm ±2dB 36M -86 12M -95dBm ±2dB 48M -82 18M -93dBm ±2dB MCS0 -92 MCS1 -93dBm ±2dB MCS0 -92 MCS2 -90dBm ±2dB MCS1 -90 MCS3 -89dBm ±2dB MCS2 -87 MCS4 -85dBm ±2dB MCS4 -81 MCS5 -81dBm ±2dB	MCS 4/12 22dBm 25dBm ±2dB MCS 4/12 22dBm 25dBm 25dBm MCS 5/13 22dBm 25dBm ±2dB MCS 5/13 22dBm 25dBm MCS 6/14 22dBm 25dBm ±2dB MCS 6/14 22dBm 25dBm MCS 7/15 21dBm 24dBm ±2dB MCS 7/15 21dBm 24dBm RX SPECIFICATIONS RX SPECIFICATIONS Sensitivity DataRate Sensitivity (2 chains) 6M -96dBm ±2dB 24M -89dBm 9M -96dBm ±2dB 36M -86dBm 12M -95dBm ±2dB 48M -82dBm 18M -93dBm ±2dB MCS0 -92dBm MCS1 -93dBm ±2dB MCS1 -90dBm MCS2 -90dBm ±2dB MCS2 -87dBm MCS3 -89dBm ±2dB MCS3 -84dBm MCS4 -81dBm ±2dB

Dimensions

Unit: mm





Ordering Information

Standard Model	Description				
CIAP6300-T	300M enterprise ceiling-mounted wireless AP				



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