

# HR-CPE45A-1 Wireless Digital Bridge



## Product Highlights

- 1 \*10/100Mbps PoE port
- Supporting IP65 protection level shell design, easily adapting to various harsh outdoor environments
- Supports 24V PoE remote power supply and DC 12V local power supply
- Supports 802.11a/n/ac WiFi 450Mbps wireless transmission
- Paired with high gain antennas, the transmission distance can reach 1km in an open and unobstructed environment
- Supports wall mounted and pole mounted installation methods, with simple construction
- Maximum support point to point interconnection

Specifications

Hardware Features & Performance	
Model	HR-CPE45A-1
Wireless Technology	802.11a/n/ac 450Mbps 1T1R technology
Interface	LAN 1* 10/100Mbps adaptive RJ45 port
Button	Reset to factory/digital composite button, short press to adjust digital tube value, long press for 5 seconds to restore factory settings
Indicator Light	PWR power indicator light, ETH RJ45 port status indicator light SIG1/SIG2/SIG3/SIG4 signal strength indicator light, digital tube
Antenna	Built in dual polarized 8dBi directional plate antenna (horizontal lobe angle 65 °, vertical lobe angle 30 °)
Power supply	24V/0.5A PoE remote power supply
Structure Information	Product Dimensions:180*90*40mm Packaging Dimensions:210*183*70mm Product Net Weight:0.15kg Product Gross Weight:0.65kg
Packing Information	Carton Dimensions:432*390.5*380mm Packing Quantity: 20pair Packing Weight: 14.06kg
Package Contents	Wireless Digital Bridge*1, 24V PoE power adapter * 1, plastic clamp * 2,Ethernet cable * 1, manual (including warranty card)*1
Installation	Pole mounted installation
Operating Temperature	-30℃~55℃
Storage Temperature	-40℃ to 70℃
Operation Humidity	10%~90%, non condensing
Storage Humidity	5%~95%, non condensing

Hardware Features & Performance	
Frequency Range	5G: UNII-1: 5.15~5.35GHz UNII-2: 5.47~5.725GHz UNII-3: 5.725~5.825GHz
Channel Distribution	36、40、44、48、52、60、64、149、153、157、161、165
Modulation Mode	802.11a: OFDM (BPSK, QPSK,16-QAM) 802.11n: OFDM (BPSK, QPSK,16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK,64-QAM, 256-QAM)
Transmission Speed	11a maximum 54Mbps, 11n maximum 144Mbps, 11ac maximum 450Mbps
Receiving Sensitivity	11a: $\leq -86\pm 1.5\text{dBm}$ @6Mbps, $\leq -69\pm 1.5\text{dBm}$ @54Mbps 11n 20MHz: $\leq -85\pm 1.5\text{dBm}$ @MCS0, $\leq -67\pm 1.5\text{dBm}$ @MCS7 11n 40MHz: $\leq -82\pm 1.5\text{dBm}$ @MCS0, $\leq -64\pm 1.5\text{dBm}$ @MCS7 11ac 20MHz: $\leq -84\pm 1.5\text{dBm}$ @MCS0, $\leq -59\pm 1.5\text{dBm}$ @MCS8 11ac 40MHz: $\leq -82\pm 1.5\text{dBm}$ @MCS0, $\leq -56\pm 1.5\text{dBm}$ @MCS9 11ac 80MHz: $\leq -78\pm 1.5\text{dBm}$ @MCS0, $\leq -52\pm 1.5\text{dBm}$ @MCS9
Transmission Power	11a: $17\text{dBm}\pm 1.5\text{dBm}$ @54Mbps 11n(20/40MHz): $15\text{dBm}\pm 1.5\text{dBm}$ @MCS7 11ac(40/80MHz): $14\text{dBm}\pm 1.5\text{dBm}$ @MCS9
Transmission Distance	1km
Software Features & Performance	
Working Mode	Bridge access point, bridge client
Networking Method	Point to point, point to many points (within eight points)
Management Style	Chinese WEB remote management/local centralized management platform batch management
State	System status, bridge status, interface status
Bridge Configuration	Wireless mode: Bridge access point/Bridge client Bridge access point: bridging SSID, bridging password, wireless protocol, wireless bandwidth, wireless channel, wireless power Bridge client: bridging SSID, encryption method, bridging password, peer MAC address, wireless channel, wireless power
Network Settings	Address acquisition method: automatic acquisition/static IP IP address, subnet mask, gateway, DNS1, DNS2
System Management	System debugging, password modification, restart/reset/upgrade

Product Structure Diagram

