Product Datasheet

2.4G/300Mbps PoE Wireless Bridge

ONV-CPE300P





OVERVIEW

ONV-CPE300P wireless bridge is a high-performance, high-stability 2.4GHz multi-purpose wireless transmission product developed by ONV. The wireless transmission rate is up to 300Mbps, and the built-in 8dBi high-gain directional antenna is adopted, so that the distance between receiving and transmitting can reach 1KM. ONV-CPE300P wireless bridge supports relay, which can realize long-distance wireless signal transmission, in addition, it also supports gateway and AP functions, which is suitable for wireless networking and wireless coverage. It adopts dust-proof, waterproof, and lightning-proof housing and antenna, which can work stably for a long time in various outdoor environments. It supports DC12V power supply/48V POE main/standby dual power supply and remote reset functions for easy management. It can realize point-to-point, point-to-multi-point, and outdoor wireless coverage and other applications to meet the wireless transmission coverage requirements of elevator monitoring, rural areas, factory districts, scenic spots, squares, and other indoor and outdoor

environments.

FEATURE

■ High gain antenna, 300M high-speed transmission

- Adopt 802.11n MIMO wireless technology, provide 300Mbps wireless transmission rate.
- Built-in high gain dual-polarized antenna, the signal is stronger and the transmission is farther.

■ Engineering-level hardware design, professional outdoor transmission

- Qualcomm high-performance enterprise-level chips, industrial-grade materials, high-speed and stable anti-interference, meet the needs of various installation environments.
- ♦ Industrial-grade integrated molding shell, with IP61 dustproof, waterproof, adaptable to various harsh environments such as wind and sun, rain, snow, and freezing, and can work normally and stably even in extremely high and low-temperature environments (-40°C~70°C).

■ Easy to install and easy to maintain

- ♦ The factory settings are free of matching. Support one-key quick digital pairing, easy and efficient.
- Support point-to-point, point-to-multi-point data transmission, centralized management.
- The installation is simple and convenient, and the signal strength is intelligently indicated.

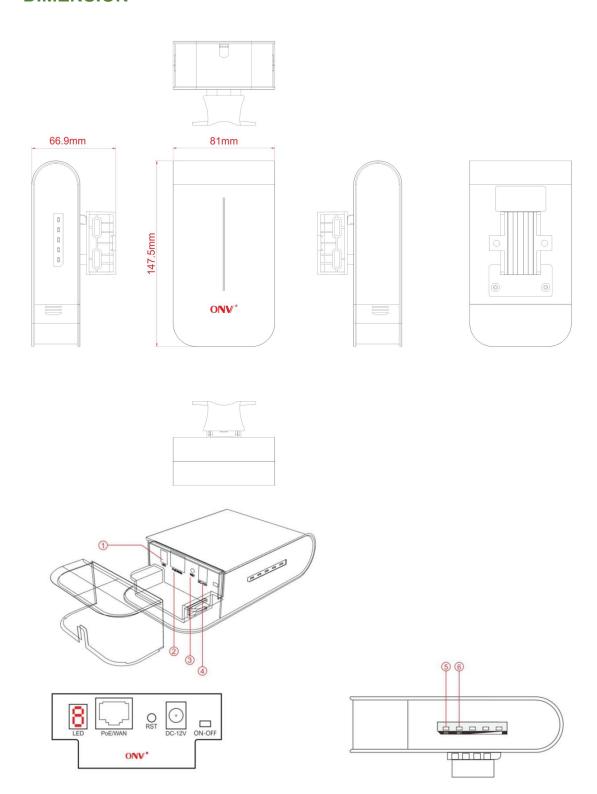
TECHNICAL SPECIFICATION

Model	ONV-CPE300P		
Interface Characteristics			
Fixed Dort	1*10/100M 48V PoE PD port(Data/Power)		
Fixed Port	1*DC5521 12VDC power port		
Ethernet Port	10/100Base-TX auto-sensing,Full/half duplex MDI/MDI-X self-adaption		
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)		
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)		
Chip Parameter			
Chip	AR9531, 650MHz		
Network Protocol	IEEE802.3u 100Base-TX, IEEE802.11b/g/n		
DDR2 Memory	64MB		
Flash	8MB		
RF Design	Dual-stream single frequency, 2T2R 300M MIMO technology		
Working Frequency	2.4~2.4835GHz,802.11b/g/n		
Transmit Power	18dBi		
Antonna Type	Built-in dual-polarization directional antenna, horizontal 60 degrees,		
Antenna Type	vertical 30 degrees, gain 8dBi		
Transmission Rate	300Mbps		
Wireless			
Transmission	1km(Max)		
Distance			
LED Indicator	System: SYS (green), network: NET (green), signal indicator: (green)		
Reset Switch	Yes, Press for 20 seconds and release to restore factory settings		
RF Parameter			
Modulation Mode	OFDM=BPSK,QPSK, 16-QAM, 64-QAM		
wodulation wode	DSSS=DBPSK, DQPSK, CCK		

	802.11n(2.4GHz)	802.11g	802.11b	
	-90dBm @ MCS0	- 90dBm @ 6Mbps	- 95dBm @ 1Mbps	
Receiving Sensitivity	-70dBm @ MCS7	- 72dBm @ 54Mbps	- 90dBm @ 11Mbps	
	-90dBm @ MCS8			
	-68dBm @ MCS15			
	802.11n(2.4GHz)			
	(±1.5dBm)	802.11g(±1.5dBm)	802.11b(±1.5dBm)	
	14dBm@	18dBm @	18dBm	
	MCS0~2/MCS8~10	6~24Mbps	@1~11Mbps	
Transmit Power	14dBm @ MCS3/MCS11	18dBm @ 36Mbps		
	14dBm @ MCS4/MCS12	16dBm @ 48Mbps		
	14dBm @ MCS5/MCS13	16dBm @ 54Mbps		
	14dBm @ MCS6/MCS14			
	14dBm @ MCS7/MCS15			
Power				
Power Supply Mode/	12VDC or 48V Passive Pol	E power supply		
Input Voltage				
Power Consumption	Standby<3W,Full Load≤5W	I		
Power Supply	Wall-mounted style 48VDC PoE power supply. Input AC:100~240V			
i ower Suppry	50-60Hz 0.5A			
Physical Parameter				
Operation TEMP /	-40~+70°C;5%~90% RH Non condensing			
Humidity	-40~+70 C;5%~90% RH Non condensing			
Storage TEMP /	-40~+75°C;5%~95% RH Non condensing			
Humidity	-40 173 0,370 as 70 Ki i Nori Condensing			
Dimension (L*W*H)	ion (L*W*H) 147.5*81*44mm			
Net /Gross Weight	<0.2kg / <1.0kg			
Installation	Pole-mounted, Wall-mount	ed		

Certification & Warranty		
Lightning protection / protection level	Port lightning protection: 6KV 8/20us; Protection level: IP61	
Warranty	3 years, lifelong maintenance.	
Software Features		
Operating Mode	Wireless bridge mode or AP mode or universal interrupt mode	
	BSSID	
Windows Cot	Automatically select the signal channel	
Wireless Set-up	Distance control 802.1x ACK time output	
	Multiple SSIDs, Max 4 can be configured	
	Hide SSID	
Wireless Security	WPA/WPA2 (WPA-EAP uses TKIP)	
	WPA/WPA2 (WPA-PSK uses TKIP or AES)	
	WEP, 64/128/152 bit WEP security password	
System Set-up	WEB configuration (HTTP/remote login)	
Software Upgrade	WEB webpage or TFTP to upgrade the software	
User Management	Configurable user and password	
System Monitoring	Equipment and network status statistics	
Log	Local log, host log, file transfer log	
Restore Set-up	Restore factory default set-up	
Backup Function	Back up the system configuration and restore the user's configuration when needed	

DIMENSION



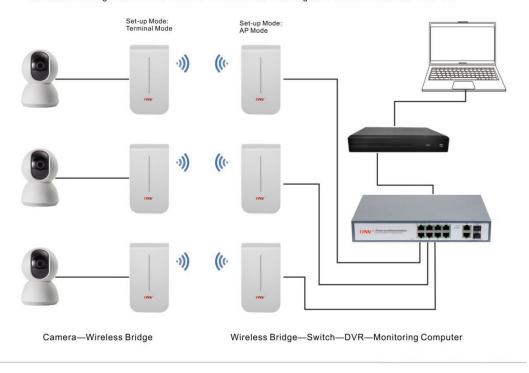
- 1 Indicator—Wireless bridge status
- ② PoE/WAN port—PoE power supply and data transmission
- 3 Reset port—Press for 20 seconds and release to restore factory setting
- 4 DC port—Wireless bridge power supply, free choice of PoE or DC power supply
- 6 SYS—System working indicator
- 6 NET—Network working indicator

APPLICATION

Point-to-point connection diagram • • •

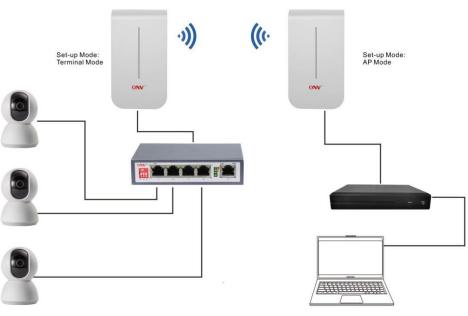
Single camera connection

If the distance among the camera is so far, each camera can be configured with a pair of wireless bridges, and the monitoring center uses a switch to connect the AP ends together and then connect to the DVR.



Multiple cameras connection

Connect the camera to the switch, then connect to the wireless bridge to transmit data through a pair of wireless bridges.



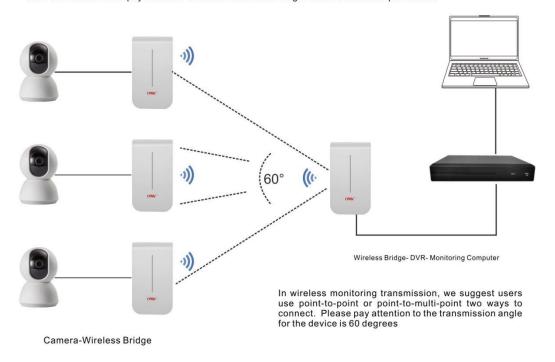
Camera-Switch—Wireless Bridg

Wireless Bridge-—DVR —Monitoring Computer

Point-to-multi-point connection diagram 🔥



If the angle of the camera and the monitoring center are less than 60 degrees, there can consider one point-to-multi-point connection. It can reduce the wireless bridges with the transmitting mode, which can save cost a lot. Please pay attention that it has to meet the angle and broadband requirements.

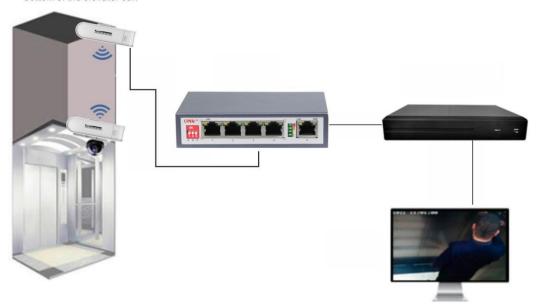


Elevator Monitoring

Installation way 1
One wireless bridge is installed on the top of the elevator hoistway, and the other is installed on the top of the elevator car.

Installation way 2

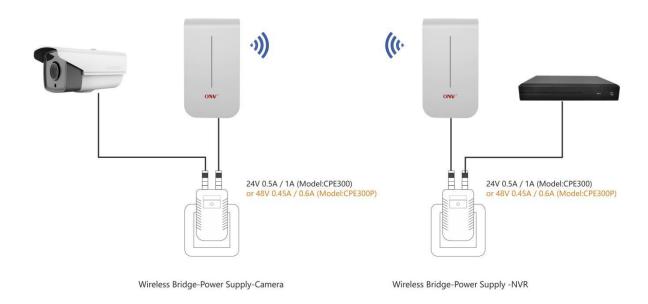
One wireless bridge is installed at the bottom of the elevator hoistway, and the other is installed at the bottom of the elevator car.



Wireless Bridge-Switch- DVR- Monitoring Computer

Wireless Bridge Connection

Connect a pair of wireless bridges to the DC/PoE power supply, then connect the camera or video recorder through the network cable.



ORDERING INFORMATION

Model	Description	Power Supply
ONV-CPE300P	2.4G/300Mbps PoE wireless bridge can support 1*10/100M 48VDC passive PoE power supply,	48VDC POE
	transmission distance 1km, pole-mounted installation.	power supply

PACKING LIST

PACKING LIST	CONTENT	QTY	UNIT
	2.4G/300Mbps PoE wireless bridge	1	Pair
	Double head RJ45 network cable	2	PC
	Hanging ear and stainless steel band	1	Pair
	User Guide	1	PC
	Warranty Card	1	PC

CONTACT US



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