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.

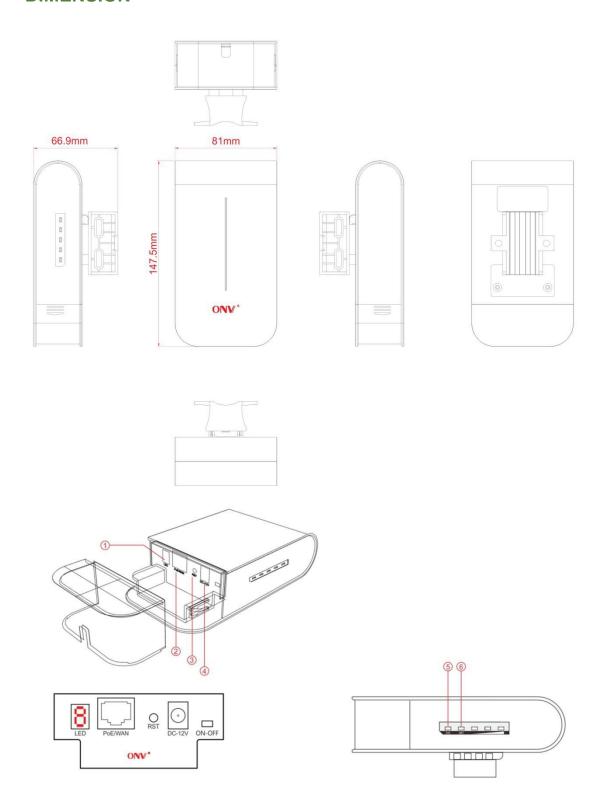
TECHNICAL SPECIFICATION

Model	ONV-CPE300P			
Interface Characteristics				
Fixed Port	1*10/100M 48V PoE PD port(Data/Power)			
	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			

Receiving Sensitivity	802.11n(2.4GHz)	802.11g	802.11b		
	-90dBm @ MCS0	- 90dBm @ 6Mbps	- 95dBm @ 1Mbps		
	-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 Supply					
Power Supply Mode	12VDC or 48V Passive PoE power supply				
Power Consumption	Standby<3W,Full Load≤5W	<i>I</i>			
Power Supply/	Wall-mounted 48VDC PoE. Input AC:100~240V 50-60Hz 0.5A				
Input Voltage	Waii 1110aintea 107201 02				
Physical Parameter					
Operation TEMP /	-40~+70°C;5%~90% RH Non condensing				
Humidity	-40 -170 0,576-9076 KIT NOTI CONGETISING				
Storage TEMP /	-40~+75°C;5%~95% RH Non condensing				
Humidity	10 110 0,070 0070 Partition condensing				
Dimension (L*W*H)	147.5*81*44mm				
Net /Gross Weight	<0.2kg / <1.0kg				
Installation	Pole-mounted, Wall-mounted				
Certification & Warranty					

Lightning protection / protection level	Port lightning protection: 6KV 8/20us; Protection level: IP61
Certification	FCC, CE -EMC /LVD/RF, RoHS
Warranty	3 years, lifelong maintenance.
Software Features	
Operating Mode	Wireless bridge mode or AP mode or universal interrupt mode
	BSSID
Wireless Set-up	Automatically select the signal channel
	Distance control 802.1x ACK time output
	Multiple SSIDs, Max 4 can be configured
Wireless Security	Hide SSID
	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



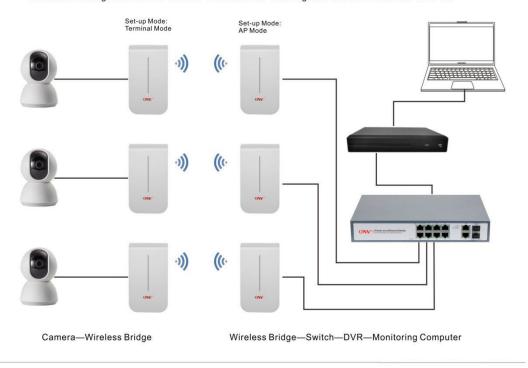
- 1 Indicator—Wireless bridge status
- 2 PoE/WAN port—PoE power supply and data transmission
- 3 Reset port—Press for 20 seconds and release to restore factory setting
- 4 DC port—Wireless bridge power supply, free choice of PoE or DC power supply
- 6 SYS—System working indicator
- 6 NET—Network working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

APPLICATION

Point-to-point connection diagram • • •

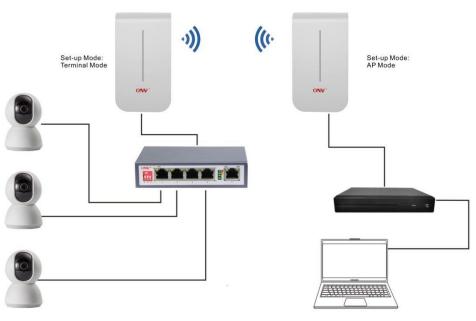
Single camera connection

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.



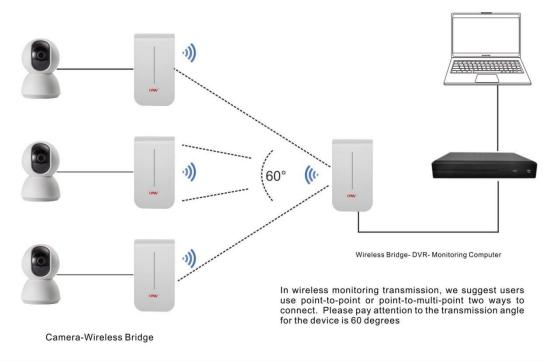
Camera-Switch-Wireless Bridg

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.

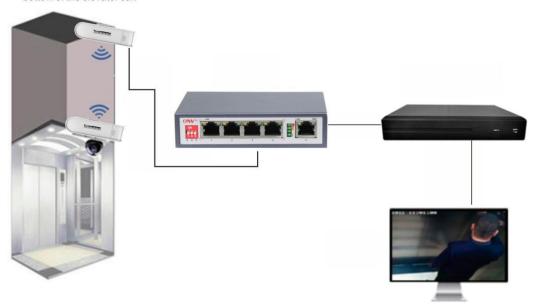


Elevator Monitoring

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

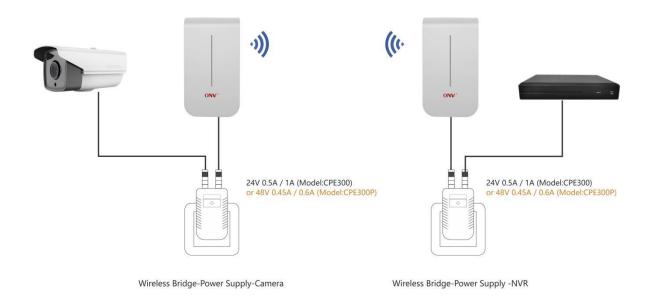
One wireless bridge is installed at the bottom of the elevator hoistway, and the other is installed at the bottom of the elevator car.



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

Note: The wireless bridge does not include 48VDC POE power supply and needs to be purchased separately.

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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