



5.8G 900Mbps 5KM Wireless CPE

- **MT7628KN+7610E, 8MB RAM, 1MB Flash**
- **1*10/100Mbps LAN/PoE Port**
- **Support 802.11a/n/ac 900Mbps (5.8GHz)**
- **Support Up to 5KM Transmission**
- **Support 24V 1A PoE Input and 24V1A DC Input**
- **Built-in High-Gain Directional Antenna (14 dBi)**
- **Support IP65 Rating Protection**
- **Supports Point-to-Point and Point-to-Multipoint Wireless Bridging (up to 8 devices).**

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Product Introduction

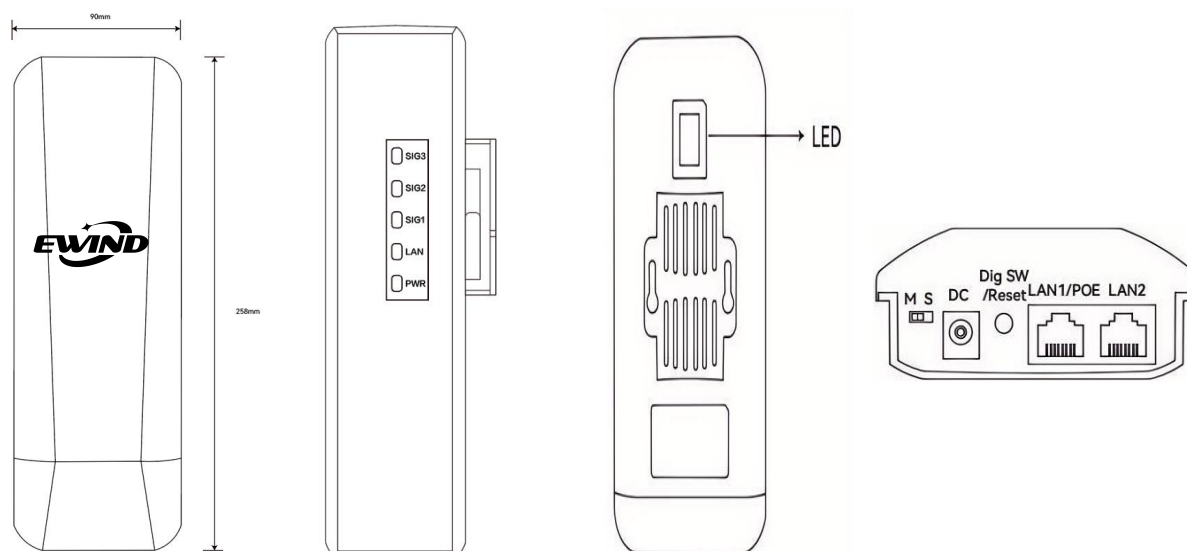
EW-CPE616 is a Industrial-grade outdoor wireless bridge with IP65-rated enclosure, designed for stable operation in harsh environments. It Supports 5.8GHz IEEE 802.11a/n/ac wireless transmission with up to 900 Mbps data rate. Built-in high-gain directional antenna (14 dBi) for reliable wireless links up to 5000 meters in open areas. Flexible power options, can support 24V Passive PoE and 12V DC local power input, with PoE transmission distance of up to 70 meters (depending on cable quality). It supports hidden bridge SSID and WPA2 encryption, ensuring secure wireless data transmission. LED status indicators and simple web interface for quick device status monitoring and basic configuration. Easy plug-and-play pairing without PC configuration, supporting PtP connections, Compact design with wall and pole mounting, it is ideal for s elevator video surveillance and outdoor wireless backhaul.

Technical Specification

Model	EW-CPE616
Hardware Configuration	
Main Chip	MT7620DA+7612E
CPU Frequency	580MHz
RAM	64MB
Flash	8MB
Wireless Technology	802.11a/n/ac 900Mbps 2T2R Technology
Network Interface	1x10/100/1000Mbps POE/WAN 1x10/100Mbps LAN
Antenna	Built-in dual-polarized 14 dBi directional panel antenna Beamwidth H: 60° V: 60°
Power Supply	24V Passive PoE, 1A (remote) 24V DC, 1A (positive tip, negative sleeve)
Buttons	Reset / Digital Compound Button Short press: adjust numeric display value Long press (≥5s): restore factory settings
Indicators	PWR: power status LAN: Ethernet port status SIG1 / SIG2 / SIG3: signal strength Numeric display: shows digital pairing value or configuration
Operating TEMP/ Humidity	-30°C ~ 55°C; 5%~90% RH (non-condensing)
Storage TEMP / Humidity	-40°C ~ 70°C; 5%~95% RH (non-condensing)
Protection	15KV ESD Protection 6KV Lightning Protection
Dimensions	140*75*34mm
Weight	0.15kg
WiFi Specification	
Frequency Band	UNII-1: 5.150 – 5.350 GHz UNII-2: 5.470 – 5.725 GHz UNII-3: 5.725 – 5.825 GHz
Channel	36, 40, 44, 48, 52, 60, 64, 149, 153, 157, 161, 165
Modulation	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 Rate	802.11a: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 900 Mbps

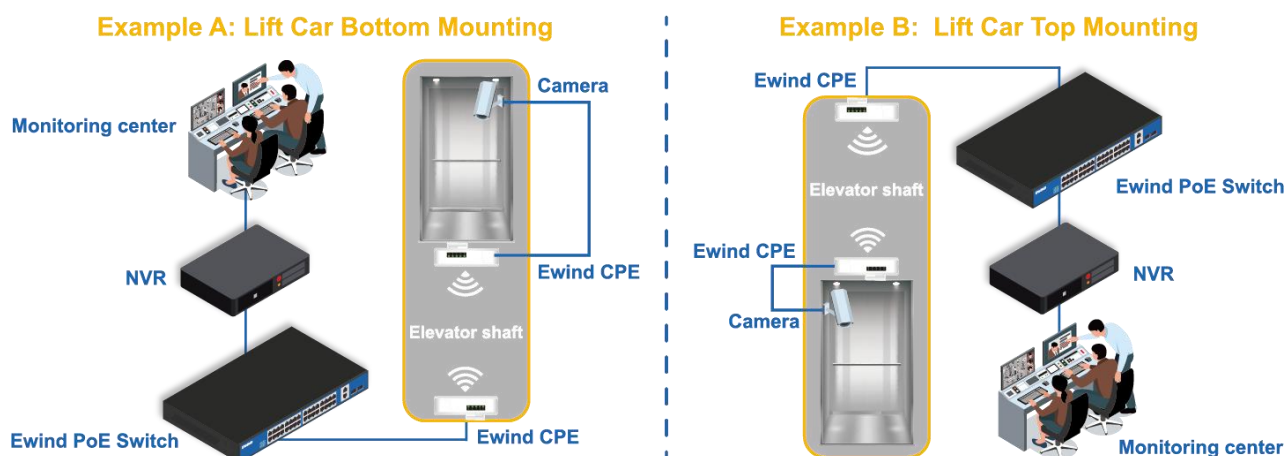
Receiver Sensitivity	802.11a: $\leq -86 \pm 1.5$ dBm @6 Mbps, $\leq -69 \pm 1.5$ dBm @54 Mbps 802.11n (20 MHz): $\leq -85 \pm 1.5$ dBm @MCS0, $\leq -67 \pm 1.5$ dBm @MCS7 802.11n (40 MHz): $\leq -82 \pm 1.5$ dBm @MCS0, $\leq -64 \pm 1.5$ dBm @MCS7 802.11ac (20 MHz): $\leq -84 \pm 1.5$ dBm @MCS0, $\leq -59 \pm 1.5$ dBm @MCS8 802.11ac (40 MHz): $\leq -82 \pm 1.5$ dBm @MCS0, $\leq -56 \pm 1.5$ dBm @MCS9 802.11ac (80 MHz): $\leq -78 \pm 1.5$ dBm @MCS0, $\leq -52 \pm 1.5$ dBm @MCS9
Transmit Power	802.11a: 23 $\pm$ 1.5 dBm @54 Mbps 802.11n (20/40 MHz): 23 $\pm$ 1.5 dBm @MCS7 802.11ac (40/80 MHz): 23 $\pm$ 1.5 dBm @MCS9
Operation & Network Specifications	
Operation Mode	Bridge Access Point, Bridge Client
Network Topology	Point-to-Point (PtP); Point-to-Multipoint (PtMP), up to 8 devices
Management Method	Web-based remote management Watchdog/Self-healing by default One-Key Connection
Status Monitoring	System Status Bridge Status Interface Status
Bridge Configuration	Wireless Mode: Bridge Access Point Bridge Client Bridge Access Point Settings: Link Name, Password, Wireless Protocol, Frequency Band, Wireless Channel, RF Power, Terminal Restriction Bridge Client Settings: Link Name (Scanning), Encryption Mode, Password, Master MAC, RF Power
Wi-Fi Settings	Wi-Fi Enable / Disable, Hide SSID, Wi-Fi Name (SSID), Encryption Mode, Wi-Fi Password
Advanced Wireless Settings	RTS/CTS Threshold Beacon Interval Fragmentation Threshold
Network Settings	IP Address Acquisition: DHCP (Automatic), Static IP Static Settings: IP Address, Subnet Mask, Gateway
System	System Debug, Change Password, Reboot, Factory Reset, Firmware Upgrade
Setup Wizard	Wireless Settings → Network Settings → Summary

Outer Case

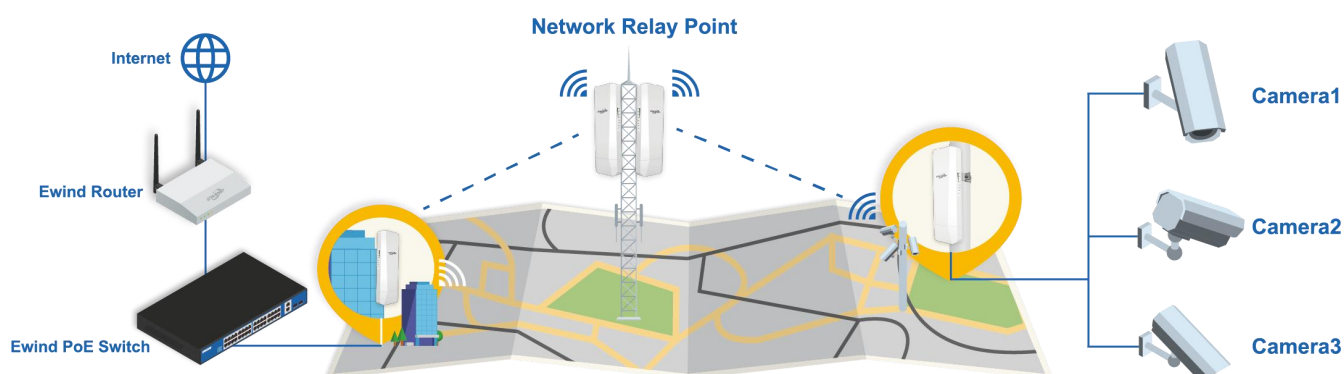


Application

Point-to-Point - Elevator video surveillance application



Point-to-Multipoint - Campus monitoring, and outdoor video backhaul application



Packing List

CONTENT	QTY	UNIT
5.8G 900Mbps 5KM Wireless CPE (EW-CPE616)	1	pair
24V PoE power adapter	2	pcs
Plastic Clamps	2	pcs
Ethernet cable	2	pcs
User manual	1	pcs