

## **DS-3WF5000S-EI-5ACG/3P** **5GHz 867Mbps 5KM Wireless Bridge**



The wireless bridge can be applied in industries, such as wireless video security, railway, transportation, power and other industries, wireless video/data transmission, wireless coverage, carrier wireless backbone network construction, Wi-Fi wireless coverage, rural information construction, and wireless network coverage. The long-distance transmission of the device can guarantee multi-channel HD video transmission.

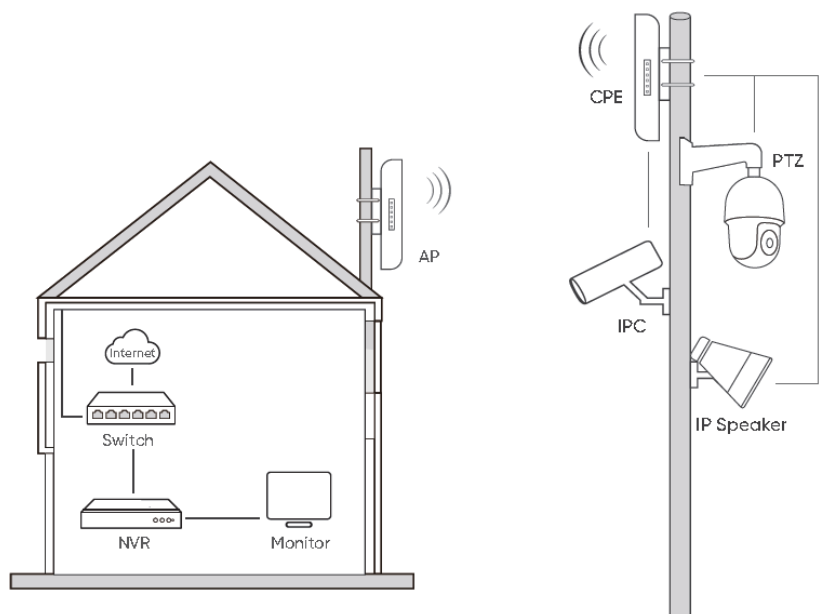
- Up to 5 km wireless transmission distance
- 867 Mbps 802.11ac wireless bridge
- Built-in 12 dBi 2 x 2 MIMO antenna
- Visualized topology management
- Standard PoE Output

## ▪ Specification

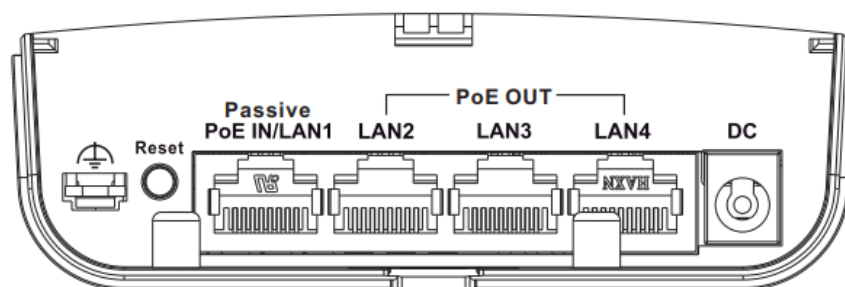
| General                                 |                                                                                                                                                   |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Dimensions (W × H × D)          | 103.6mm × 58.3mm × 187mm                                                                                                                          |
| Package Dimensions (W × H × D)          | 256 mm × 228 mm × 88 mm (10.08" × 9.98" × 3.46")                                                                                                  |
| Net Weight                              | 0.330 kg (0.73 lb) per device                                                                                                                     |
| Gross Weight                            | 1.244 kg (2.74 lb)                                                                                                                                |
| Packing List                            | Wireless Bridge × 1, PoE Power Supply × 1, AC Cord × 1, Quick Start Guide × 1, Regulatory Compliance and Safety Information × 1, Binding Tape × 2 |
| Packing Method                          | Single unit packing                                                                                                                               |
| Working Temperature                     | -30 °C to 60 °C (-22 °F to 140 °F)                                                                                                                |
| Working Humidity                        | 5% to 95% (no condensation)                                                                                                                       |
| Storage Temperature                     | -40 °C to 80 °C (-40 °F to 176 °F)                                                                                                                |
| Storage Humidity                        | 5% to 95% (no condensation)                                                                                                                       |
| Installation Mode                       | Pole Mounting                                                                                                                                     |
| Ingress Protection                      | IP55                                                                                                                                              |
| Power Consumption                       | 5 W for typical (1-ch 2MP IPC), Max. 6.2 W                                                                                                        |
| Wireless Parameter                      |                                                                                                                                                   |
| Wireless Standard                       | IEEE 802.11/a/n/ac                                                                                                                                |
| Max. Transmission Rate of Air Interface | ≤ 867 Mbps                                                                                                                                        |
| Working Frequency Band                  | 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5825 MHz                                                                |
| Antenna Gain                            | 12 dBi                                                                                                                                            |
| Antenna Angle                           | (H) Beamwidth [3 dB] 35° (V) Beamwidth [3 dB] 35°                                                                                                 |
| Transmitting Power                      | 27 dBm @11ac 80MHz MCS0 (Note: Transmitting power may vary with local regulations.)                                                               |
| Receiving Sensitivity                   | -88 ±2dBm@AC80-MCS0                                                                                                                               |
| Throughput Rate                         | PTP: 270 Mbps/1 KM(AC80), 220 Mbps/3 KM(AC80), 170 Mbps/5 KM(AC80); PTMP(1 to 8): 100 Mbps/5KM(AC80)                                              |
| PoE Power Supply                        |                                                                                                                                                   |
| PoE Port                                | LAN1 passive PoE IN, LAN2~4 802.3 af PoE OUT                                                                                                      |
| Max. Port Power                         | 28 W                                                                                                                                              |
| PoE Power Budget                        | 40 W                                                                                                                                              |
| PoE Distance                            | 100 m                                                                                                                                             |
| Hardware Parameter                      |                                                                                                                                                   |
| Network Interface                       | 4 × 10/100/1000 Mbps RJ45 ports                                                                                                                   |
| LED Indicator                           | Power indicator, LAN indicator, Signal intensity indicator                                                                                        |
| Reset                                   | Hardware resetting button                                                                                                                         |
| Power Supply                            | 48V PoE/12~24V DC; Check the physical interface image below for more details.                                                                     |
| Software Function                       |                                                                                                                                                   |
| Application Function                    | IFM, IPM, DFS, TPC                                                                                                                                |
| Channel Width                           | 20/40/80 MHz                                                                                                                                      |
| Channel Selection                       | Auto/manual selection                                                                                                                             |
| Security Mode                           | WPA2-PSK                                                                                                                                          |
| Security Mechanism                      | Wireless network name hidden                                                                                                                      |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Protocol  | NTP (network time synchronization),SADP (auto search for IP address), HTTPS/HTTP (web management),SSH (debugging)                                                                                                                                                                                                                                                                                                                                                                                                 |
| Management Method | HCP,Web,iVMS-4200,HPP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| System Log        | Syslog,Control center information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Upgrade           | Web,iVMS-4200,HCP,HPP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| HPP               | Support one-click activation and remote management via Hik-Partner Pro. Functions supported:<br>1. Reboot device<br>2. Restore device<br>3. Display the topology information<br>4. Display the connection status between AP and CPEs, including signal intensity, background noise, sending & receiving rate<br>5. Configure wireless settings, including working mode, SSID, password, channel, channel bandwidth, transmitting power<br>6. Bridge alignment<br>7. Spectrum scanning<br>8. PoE output management |
| <b>Approval</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| EMC               | CE-EMC (EN 55032:2015+A11: 2020, EN IEC 61000-3-2:2019, EN 61000-3-3:2013+A1: 2019, EN 50130-4:2011+A1: 2014, EN 55035:2017+A11: 2020),IC (ICES-003: Issue 7:2020),RCM (AS/NZS CISPR 32: 2015)                                                                                                                                                                                                                                                                                                                    |
| Safety            | CB (AMD1:2009, AMD2:2013, IEC 62368-1:2014 (Second Edition)), CE-LVD (EN 62368-1:2014+A11: 2017)                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Chemistry         | CE-RoHS (2011/65/EU),WEEE (2012/19/EU),Reach (Regulation (EC) No.1907/2006)                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Radio             | EN 301 893,EN 300 440,EN 62311,EN 301 489-3,EN 301 489-17                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## ▪ Typical Application

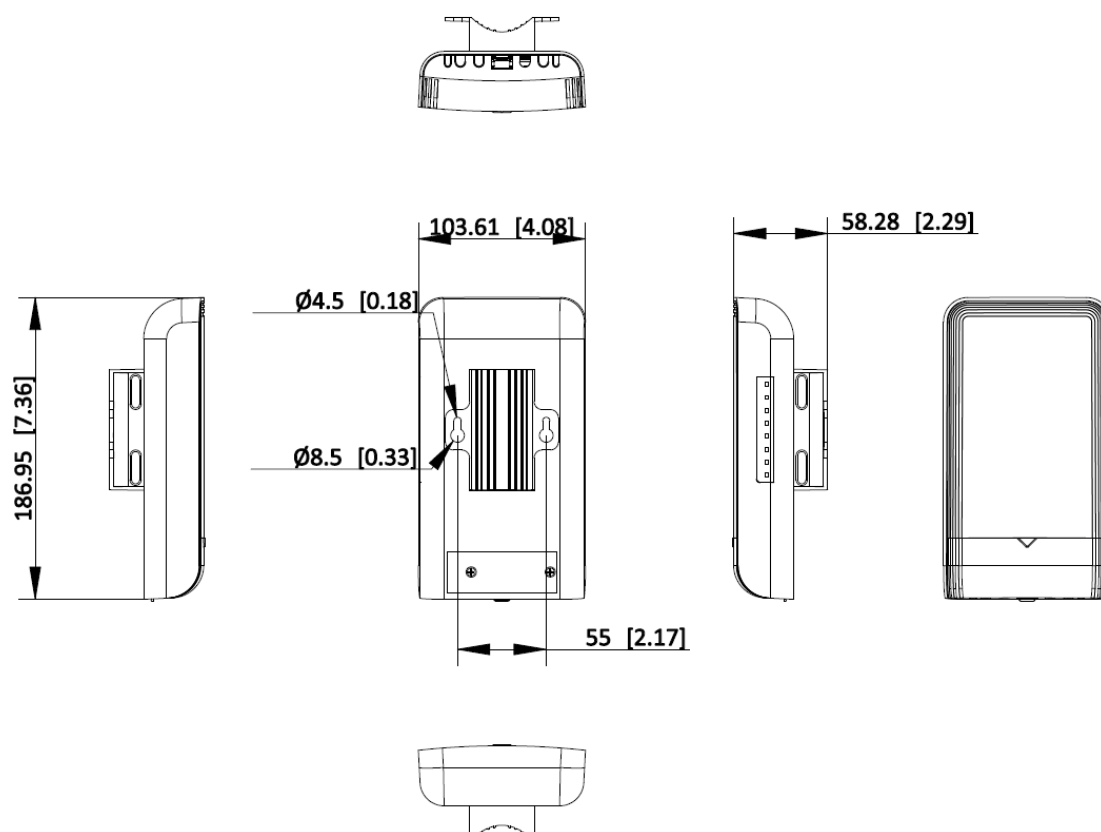


## Physical Interface



| Interface/Button                 | Description                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Grounding terminal               | Connect ground wire to discharge static electricity and protect equipment from lightning or current fluctuations. |
| Reset                            | Long press for 4 seconds to restore to factory settings.                                                          |
| LAN1(Passive PoE IN)             | The 10/100/1000 Mbps adaptive RJ45 port, also can be used as a passive PoE input port.                            |
| LAN2/LAN3/LAN4(Standard PoE OUT) | The 10/100/1000 Mbps adaptive RJ45 port, also can be used as a standard PoE output port.                          |
| DC                               | Support DC 12~24V power supply. PoE OUT is not available when the device is powered by DC port.                   |

## Dimension



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