WLShare X

Explosion Proof WiFi6 Access Point

JEXWEAR
DEVOTED TO SOLUTIONS IN HAZARDOUS AREAS

II 2G Ex db eb IIC T6 Gb
Ex tb IIIC T85°C Db

Ex db eb IIC T6 Gb
Ex tb IIIC T85°C Db

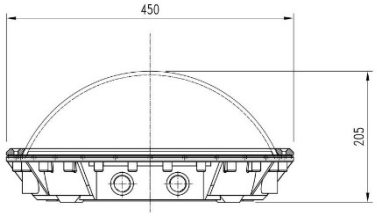
HUAWEI INSIDE
AP7060DN by default

Features

- IECEx and ATEX Zone 1 certified.
- The smallest, lightest and highest performing Wi-Fi access point for zone 1 ever created.
- No need for external antennas, cables and glands reduces weight, cost and size.
- Based on both clever engineering, material science and state of the art wireless infrastructure, we are now eliminating the need for bulky and heavy enclosures and antennas.
- Room for most access point types, including WirelessHART, Bluetooth, ISA 100, 3G/4G/5G and others.
- Support for both internal and external (stub) antennas.
- Both POE and Fiber with integrated Dual Band antennas and MIMO technology.
- The WLShare X has clever use of highest grade polycarbonates in order to remove the need for external antennas.
- With a rigid stainless steel or aluminum base, the WLShare X is IP66(Water / Dust resistant).
- The result is a staggering reduction of 2/3 installation time, 1/5th of the weight and 1/3th of the size compared to a EX-d based enclosure solution with external antennas.
- The WLShare X is a “plug and play” and “off the shelf” solution, easier installation, inspection and maintenance.
- When you have the connections terminated (POE or Fiber with local power) in the Ex-e chamber, you can easily install the WLShare X without any additional tools.
- Smart mounting bracket makes the bi-annual inspection of EX-e chamber easy, saving as much as 60 % of the time and effort needed for inspections.

Dimensions

Unit: mm



Optional Accessories

--Smart mounting bracket

Specifications

Model	WLShare X-AP (AP7060DN inside)
Huawei AP7060DN Product Overview	
The AP7060DN is a cutting-edge 802.11ax wireless access point (AP) with built-in omnidirectional antennas. The device rate can reach up to 6 Gbit/s. On the 2.4 GHz band, the AP7060DN supports 4x4 MIMO and four spatial streams, achieving a rate of 1.15 Gbit/s. On the 5 GHz band, the AP7060DN supports 8x8 MIMO and eight spatial streams, achieving a rate of 4.8 Gbit/s. With its 10GE uplink interface, the AP7060DN can easily eliminate the bottleneck in upstream bandwidth of common APs, and is an industry-leading AP among similar products. The AP7060DN supports high-bandwidth services such as VR/AR all-interactive teaching, HD video streaming, multimedia, and desktop cloud, and provides high-quality wireless services for enterprises.	
● Provides services simultaneously on both the 2.4 GHz and 5 GHz bands, at a rate of up to 1.15 Gbit/s at 2.4 GHz, 4.8 Gbit/s at 5 GHz, and 6 Gbit/s for the device.	
● Provides a 10GE uplink interface that supports 100M/1000M/2.5G/5G auto-sensing.	
● Supports Bluetooth serial interface-based O&M through built-in Bluetooth and CloudCampus APP, and precise locating of Bluetooth terminals by collaborating with eSight.	
● Provides a USB interface for external power supply and storage.	
● Provides an external IoT module, allowing for flexible IoT application extension.	
● Supports the Fat, Fit, and cloud modes and enables Huawei cloud-based management platform to manage and operate APs and services on the APs, reducing network O&M costs.	
Feature Descriptions	
● 10G uplink	
The AP provides a 10GE uplink interface, supporting the uplink bandwidth of over 5 Gbit/s.	
● IoT extension	
The AP provides an external IoT module that allows for extension of ZigBee and RFID, implementing short-distance, lower-power consumption IoT applications.	
● 802.11ax standards compliance	
The AP supports 1024QAM modulation and 8x8 MIMO technology, achieving an air interface rate of 4.8 Gbit/s.	
OFDMA modulation enables multiple users to receive and send information at the same time, reducing the delay and improving network efficiency.	
● Cloud-based management	
Huawei Cloud Managed Network (CMN) Solution consists of the cloud management platform and a full range of cloud managed network devices. The cloud management platform provides various functions including management of APs, tenants, applications, and licenses, network planning and optimization, device monitoring, network service configuration, and valueadded services.	
● High Density Boost technology	
Huawei uses the following technologies to address challenges in high-density scenarios, including access problems, data congestion, and poor roaming experience.	
● SmartRadio for air interface optimization	
● Air interface performance optimization	
● 5G-prior access (Band steering)	
The APs support both 2.4G and 5G frequency bands. The 5G-prior access function enables an AP to steer STAs to the 5 GHz frequency band first, which reduces load and interference on the 2.4 GHz frequency band, improving user experience.	
● Wired and wireless dual security guarantee	
To ensure data security, Huawei APs integrate wired and wireless security measures and provide comprehensive security protection.	
● Authentication and encryption for wireless access	
The APs support WEP, WPA/WPA2-PSK, WPA/WPA2-PPSK, WPA/WPA2-802.1X, and WAPI authentication/encryption modes to ensure security of the wireless network. The authentication mechanism is used to authenticate user identities so that only authorized users can access network resources. The encryption mechanism is used to encrypt data transmitted over wireless links to ensure that the data can only be received and parsed by expected users.	
● Analysis on non-Wi-Fi interference sources	
● Rogue device monitoring	
● AP access authentication and encryption	
● Automatic radio calibration	
● Automatic application identification	
● Traffic identification	
● Traffic statistics collection	
Technical Specifications	
Technical specifications	
Interface type	1 x 10/100/1000M self-adaptive Ethernet interface (RJ45)
	1 x 100/1000M/2.5G/5G/10G self-adaptive Ethernet interface (RJ45)
	1 x Management console port (RJ45)
	1 x USB interface
Built-in Bluetooth	BLE5.0
LED indicator	Indicates the power-on, startup, running, alarm, and fault states of the system.
Power specifications	
Power input	AC:85 ~ 264VAC
	PoE power supply: In compliance with 802.3 at/bt.
Maximum power consumption	30 W (excluding output power consumption of the USB interface and IoT)
Radio specifications	
Antenna type	Built-in dual-band omnidirectional antennas
Antenna gain	2.4 GHz: 4.6 dBi 5 GHz: 5.6 dBi
Maximum number of SSIDs for each radio	≤ 16
Maximum number of users	≤ 1024
Maximum transmit power	2.4G: 24 dBm (combined power) 5G: 27 dBm (combined power)
Power increment	1 dBm
Maximum number of non-overlapping channels	**2.4 GHz (2.412 GHz to 2.472 GHz)**
	802.11b/g – 20 MHz: 3
	802.11n – 20 MHz: 3 – 40 MHz: 1
	802.11ax – 20 MHz: 3 – 40 MHz: 1
	5 GHz (5.18 GHz to 5.825 GHz)
	802.11a – 20 MHz: 13
	802.11n – 20 MHz: 13 – 40 MHz: 6
	802.11ac – 20 MHz: 13 – 40 MHz: 6 – 80 MHz: 3 – 160 MHz: 1
	802.11ax – 20 MHz: 13 – 40 MHz: 6 – 80 MHz: 3 – 160 MHz: 1
SIZE	
	450.00X450.00X205.00mm
Weight	
	Approx 18KG (including the standard AP7060DN)